=> file medline

=> d que 136

FILE MEDITNE ENTERED AT 17:43:38 ON 28 JAN 2003

FILE LAST UPDATED: 28 JAN 2003 (20030128/UP). FILE COVERS 1958 TO DATE.

On June 9, 2002, MEDLINE was reloaded. See HELP RLOAD for details.

MEDLINE thesauri in the /CN, /CT, and /MN fields incorporate the MeSH 2003 vocabulary. See http://www.nlm.nih.gov/mesh/summ2003.html for a description on changes.

This file contains CAS Registry Numbers for easy and accurate substance identification.

CT = controlled turn inology NT = narrower terms

> a que	130					
L1	207494	SEA	FILE=MEDLINE	ABB=ON	PLU=ON	METALS, ALKALINE EARTH+NT/CT
L2	8484	SEA	FILE=MEDLINE	ABB=ON	PLU=ON	CATIONS, DIVALENT+NT/CT
L3	28976	SEA	FILE=MEDLINE	ABB=ON	PLU=ON	ZINC/CT
L8	18976	SEA	FILE=MEDLINE	ABB=ON	PLU=ON	POLYETHYLENE GLYCOLS+NT/CT
L12	17247	SEA	FILE=MEDLINE	ABB=ON	PLU=ON	CELLULOSE+NT/CT
L13	16642	SEA	FILE=MEDLINE	ABB=ON	PLU=ON	DEXTRANS+NT/CT
L14	62388	SEA	FILE=MEDLINE	ABB=ON	PLU=ON	GLYCOSAMINOGLYCANS+NT/CT
L20	1563	SEA	FILE=MEDLINE	ABB=ON	PLU=ON	BIOPHARMACEUTICS/CT
L21	10241	SEA	FILE=MEDLINE	ABB=ON	PLU=ON	CHEMISTRY, PHARMACEUTICAL/CT
L22	309013	SEA	FILE=MEDLINE	ABB=ON	PLU=ON	DRUG ADMINISTRATION ROUTES+NT/
		CT				
L23	13586	SEA	FILE=MEDLINE	ABB=ON	PLU=ON	GELS+NT/CT
L24	6891	SEA	FILE=MEDLINE	ABB=ON	PLU=ON	DRUG CARRIERS/CT
L32	6217	SEA	FILE=MEDLINE	ABB=ON	PLU=ON	(L1 OR L2 OR L3) AND (L20 OR
		L21	OR L22 OR L23	3 OR L24)	
L33	2498	SEA	FILE=MEDLINE	ABB=ON	PLU=ON	L8 AND (L20 OR L21 OR L22 OR
			OR L24)			
L34	8160		FILE=MEDLINE			(L12 OR L13 OR L14) AND (L20
			L21 OR L22 OR		,	
L35	2	SEA	_FILE=MEDLINE	ABB=ON	PLU=ON	L32 AND L33 AND L34
L3,6	1	SEA	_FILE=MEDLINE	ABB=ON	PLU=ON	135 AND HYDROGEL, (ate

=> d que 140

L1	207494	SEA	FILE=MEDLINE	ABB=ON	PLU=ON	METALS, ALKALINE EARTH+NT/CT
L2	8484	SEA	FILE=MEDLINE	ABB=ON	PLU=ON	CATIONS, DIVALENT+NT/CT
L3	28976	SEA	FILE=MEDLINE	ABB=ON	PLU=ON	ZINC/CT
L8	18976	SEA	FILE=MEDLINE	ABB=ON	PLU=ON	POLYETHYLENE GLYCOLS+NT/CT
L37	14865	SEA	FILE=MEDLINE	ABB=ON	PLU=ON	POLYSACCHARIDES/CT
L38	320	SEA	FILE=MEDLINE	ABB=ON	PLU=ON	L37 AND (L1 OR L2 OR L3)
L39			FILE=MEDLINE			L38 AND L8
L40	1	SEA	FILE=MEDLINE	ABB=ON	PLU=ON	139 AND HYDROGEL / Cite

=> s 136 or 140

1420 2 L36 OR L40 2 cites total for medline

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^{=&}gt; file embase

FILE COVERS 1974 TO 16 Jan 2003 (20030116/ED)

EMBASE has been reloaded. Enter HELP RLOAD for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d que 165

L49 L50	7929 SEA FILE=EMBASE ABB=ON PLU=ON POLYSACCHARIDE/CT 12283 SEA FILE=EMBASE ABB=ON PLU=ON POLYETHYLENE GLYCOL OR PEG
L61	20828 SEA FILE=EMBASE ABB=ON PLU=ON (L49 OR ?CELLULOS? OR ?DEXTRAN? OR ?CHITOSAN? OR ?HEPAR!N?) AND (MG OR MN OR CA OR BA OR ZN OR MANGANESE OR MAGNESIUM OR CALCIUM OR ZINC)
L62	188 SEA FILE=EMBASE ABB=ON PLU=ON L61 AND L50
L63	16 SEA FILE=EMBASE ABB=ON PLU=ON L62 AND DRUG(3A)(DELIVER? OR TARGET?)
L65	1 SEA FILE=EMBASE ABB=ON PLU=ON L63 AND (?COAGUL? OR ?THROMBO?) OR ?PLASMINOGEN?)) cite for embase

=> file hcaplus

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FILE COVERS 1907 - 28 Jan 2003 VOL 138 ISS 5 FILE LAST UPDATED: 27 Jan 2003 (20030127/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d que 1141

LIIO are the I OR 106392-12-5/BI OR 1398-61-4/BI OR 25322-69-4/BI OR 83512-85-0/BI OR 9000-69-5/BI OR 9004-42-6/BI OR 9004-61-9/BI OR 9005-32-7/BI OR 9005-49-6/BI OR 9007-28-7/BI OR 9004-05-7/BI OR 9005-32-7/BI OR 9005-49-6/BI OR 9007-28-7/BI OR 9044-05-7/BI OR 9005-32-7/BI OR 26009-03-0/BI OR 26023-30-3/BI OR 26100-51-6/BI OR 26124-68-5/BI OR 26876-05-1/BI OR 28728-97-4/B I OR 29894-36-8/BI OR 36562-70-6/BI OR 36655-86-4/BI OR 50851-57-5/BI OR 9003-01-4/BI OR 9005-37-2/BI OR 9050-30-0/BI OR 101-40-6/BI OR 102-76-1/BI OR 106-69-4/BI OR 107-21-1/BI OR 111-29-5/BI OR 114959-05-6/BI OR 139639-23-9/BI OR 14838-15-4/B I OR 15687-27-1/BI OR 22071-15-4/BI OR 25395-31-7/BI OR 26446-35-5/BI OR 299-42-3/BI OR 390-28-3/BI OR 50-78-2/BI OR

```
51-41-2/BI OR 51-43-4/BI OR 51-61-6/BI OR 54-49-9/BI OR
                56-81-5/BI OR 57-55-6/BI OR 7429-90-5/BI OR 7439-89-6/BI OR
                7439-95-4/BI OR 7439-96-5/BI OR 7440-47-3/BI OR 7440-66-6/BI
                OR 7440-70-2/BI OR 77-99-6/BI OR 9002-04-4/BI OR 11129-12-7/BI
                OR 124-38-9/BI OR 126-44-3/BI OR 131854-14-3/BI OR 131878-61-0/
                BI OR 1320-50-9/BI OR 14066-19-4/BI OR 14127-61-8/BI OR
                14265-44-2/BI OR 14808-79-8/BI OR 16065-83-1/BI OR 16397-91-4/B
                I OR 16887-00-6/BI OR 20074-52-6/BI OR 22537-22-0/BI OR
                22537-23-1/BI OR 23713-49-7/BI OR 338-70-5/BI OR 3812-32-6/BI
                OR 52352-27-9/BI OR 52519-63-8/BI OR 71-50-1/BI OR 71-52-3/BI
                OR 75-21-8/BI OR 7664-41-7/BI OR 7727-37-9/BI OR 9002-89-5/BI
                OR 9003-39-8/BI OR 9004-62-0/BI OR 9004-64-2/BI OR 9004-65-3/BI
                 OR 9004-67-5/BI OR 9005-25-8/BI OR 9005-79-2/BI)
              1) SEA FILE=REGISTRY ABB=ON PLU=ON L110 AND "HEPARAN"
L111(
                                                   L110 AND "HEPARIN"
L112(
              1) SEA FILE=REGISTRY ABB=ON
                                           PLU=ON
                                                   L110 AND "CELLULOSE"
L113(
              8) SEA FILE=REGISTRY ABB=ON
                                           PLU=ON
                                                   L110 AND "CHONDROITIN"
L114(
              1) SEA FILE=REGISTRY ABB=ON
                                           PLU=ON
                                                   L110 AND "HYALURONIC"
L115(
              1) SEA FILE=REGISTRY ABB=ON
                                           PLU=ON
              1) SEA FILE=REGISTRY ABB=ON
                                                   L110 AND "DEXTRAN"
L116(
                                           PLU=ON
              2) SEA FILE=REGISTRY ABB=ON
                                                   L110 AND "CHITOSAN"
L117(
                                           PLU=ON
L118 poly
             15) SEA FILE=REGISTRY ABB=ON
                                           PLU=ON
                                                   (L111 OR L112 OR L113 OR
      acido
                L114 OR L115 OR L116 OR L117)
L119(
              1) SEA FILE=REGISTRY ABB=ON
                                           PLU=ON
                                                   25322-68-3
              8) SEA FILE=REGISTRY ABB=ON
L120(
                                           PLU=ON
                                                   L110 AND (CA OR ZN OR MG OR
                          els = element symbol
                MN)/ELS
            209) SEA FILE=REGISTRY ABB=ON
                                           PLU=ON
                                                   "FE" AND "ION"
L121(
                                                   L121 AND "2+"
                                           PLU=ON
L122(
             34) SEA FILE=REGISTRY ABB=ON
                                                   "CA" AND "ION"
L123(
            325) SEA FILE=REGISTRY ABB=ON
                                           PLU=ON
                                                   L123 AND "2+"
             13) SEA FILE=REGISTRY ABB=ON
                                           PLU=ON
L124 (
                                                   ("ZN" OR "MG" OR "MN" OR
L125(
           1164) SEA FILE=REGISTRY ABB=ON
                                           PLU=ON
                "BA" OR "SR") AND "ION"
             96) SEA FILE=REGISTRY ABB=ON
                                           PLU≔ON
                                                   L125 AND "2+"
L126(
L127(
              1) SEA FILE=REGISTRY ABB=ON
                                           PLU=ON
                                                   STRONTIUM/CN
L128(
              1) SEA FILE=REGISTRY ABB=ON
                                           PLU=ON
                                                   BARIUM/CN
L130 ( d. valut 8) SEA FILE-REGISTRY ABB-ON 157) SEA FILE-REGISTRY ABB-ON
L129(
              1) SEA FILE=REGISTRY ABB=ON
                                           PLU=ON
                                                   BERYLLIUM/CN
                                                   "BE" AND "ION" AND "2+"
    Davar 157) SEA FILE=REGISTRY ABB=ON PLU=ON L120 OR L122 OR L124 OR (L126 OR L127 OR L128 OP L120 OF L120)
                                           PLU=ON
                                                          BIOL= Biological study
          71131) SEA FILE=HCAPLUS ABB=ON
L132(
                                          PLU=ON L118
                                                                    thropate use
                                                          ナんれっ
L133(
          66401) SEA FILE=HCAPLUS ABB=ON
                                          PLU=ON
                                                 L119
                                                          PKT =
                                                                    pharmaco kine 1: (5
L134(
         694516) SEA FILE=HCAPLUS ABB=ON
                                          PLU=ON
                                                 L131
L135(
          38397) SEA FILE=HCAPLUS ABB=ON
                                          PLU=ON
                                                  L132(L) (BIOL OR THU OR PKT OR
                                                           DMA = Drug weekanism of
                DMA OR PAC OR BAC)/RL
                                                                                    action
                                                  L133(L) (BIOL OR THU OR PKT OR
L136(
          15456) SEA FILE=HCAPLUS ABB=ON
                                          PLU=ON
                                                               DAC = Pharmacologs
                DMA OR PAC OR BAC)/RL
L137(
         283297) SEA FILE=HCAPLUS ABB=ON
                                          PLU=ON
                                                  L134(L) (BIOL OR THU OR PKT OR
                DMA OR PAC OR BAC)/RL
                                                                      BAC = Biological
                                          PLU=ON L135 AND L136 AND L137
L138(
             99) SEA FILE=HCAPLUS ABB=ON
                                                  DRUG DELIVERY SYSTEMS+NT, OLD/C
L139(
         133270) SEA FILE=HCAPLUS ABB=ON
                                          PLU=ON
                Т
                                                                                  KL=Kale
L140(
             53) SEA FILE=HCAPLUS ABB=ON
                                          PLU=ON L138 AND L139
             12 SEA FILE-HCAPLUS ABBON PLU-ON L140 AND GEL 12 cites
L141
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=> d que 1171

L142(91) SEA FILE=REGISTRY ABB=ON PLU=ON (25322-68-3/BI OR 9004-32-4/B I OR 106392-12-5/BI OR 1398-61-4/BI OR 25322-69-4/BI OR 83512-85-0/BI OR 9000-69-5/BI OR 9004-42-6/BI OR 9004-61-9/BI OR 9005-32-7/BI OR 9005-49-6/BI OR 9007-28-7/BI OR 9044-05-7/BI

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OR 25087-26-7/BI OR 26009-03-0/BI OR 26023-30-3/BI OR
                26100-51-6/BI OR 26124-68-5/BI OR 26876-05-1/BI OR 28728-97-4/B
                I OR 29894-36-8/BI OR 36562-70-6/BI OR 36655-86-4/BI OR
                50851-57-5/BI OR 9003-01-4/BI OR 9005-37-2/BI OR 9050-30-0/BI
                OR 101-40-6/BI OR 102-76-1/BI OR 106-69-4/BI OR 107-21-1/BI OR
                111-29-5/BI OR 114959-05-6/BI OR 139639-23-9/BI OR 14838-15-4/B
                 I OR 15687-27-1/BI OR 22071-15-4/BI OR 25395-31-7/BI OR
                26446-35-5/BI OR 299-42-3/BI OR 390-28-3/BI OR 50-78-2/BI OR
                51-41-2/BI OR 51-43-4/BI OR 51-61-6/BI OR 54-49-9/BI OR
                56-81-5/BI OR 57-55-6/BI OR 7429-90-5/BI OR 7439-89-6/BI OR
                7439-95-4/BI OR 7439-96-5/BI OR 7440-47-3/BI OR 7440-66-6/BI
                OR 7440-70-2/BI OR 77-99-6/BI OR 9002-04-4/BI OR 11129-12-7/BI
                OR 124-38-9/BI OR 126-44-3/BI OR 131854-14-3/BI OR 131878-61-0/
                BI OR 1320-50-9/BI OR 14066-19-4/BI OR 14127-61-8/BI OR
                14265-44-2/BI OR 14808-79-8/BI OR 16065-83-1/BI OR 16397-91-4/B
                I OR 16887-00-6/BI OR 20074-52-6/BI OR 22537-22-0/BI OR
                22537-23-1/BI OR 23713-49-7/BI OR 338-70-5/BI OR 3812-32-6/BI
                OR 52352-27-9/BI OR 52519-63-8/BI OR 71-50-1/BI OR 71-52-3/BI
                OR 75-21-8/BI OR 7664-41-7/BI OR 7727-37-9/BI OR 9002-89-5/BI
                OR 9003-39-8/BI OR 9004-62-0/BI OR 9004-64-2/BI OR 9004-65-3/BI
                 OR 9004-67-5/BI OR 9005-25-8/BI OR 9005-79-2/BI)
              1) SEA FILE=REGISTRY ABB=ON PLU=ON L142 AND "HEPARAN"
L143(
                                                  L142 AND "HEPARIN"
              1) SEA FILE=REGISTRY ABB=ON
L144(
                                          PLU=ON
                                                  L142 AND "CELLULOSE"
L145(
              8) SEA FILE=REGISTRY ABB=ON
                                          PLU=ON
                                                  L142 AND "CHONDROITIN"
              1) SEA FILE=REGISTRY ABB=ON
L146(
                                          PLU=ON
                                                  L142 AND "HYALURONIC"
              1) SEA FILE=REGISTRY ABB=ON
L147(
                                          PLU=ON
              1) SEA FILE=REGISTRY ABB=ON
                                                  L142 AND "DEXTRAN"
L148(
                                          PLU≃ON
                                                   L142 AND "CHITOSAN"
L149(
              2) SEA FILE=REGISTRY ABB=ON
                                          PLU=ON
             15) SEA FILE=REGISTRY ABB=ON
L150(
                                          PLU=ON
                                                   (L143 OR L144 OR L145 OR
                L146 OR L147 OR L148 OR L149)
              1) SEA FILE=REGISTRY ABB=ON PLU=ON
                                                   25322-68-3
L151(
              8) SEA FILE=REGISTRY ABB=ON PLU=ON L142 AND (CA OR ZN OR MG OR
L152(
                MN)/ELS
                                                   "FE" AND "ION"
            209) SEA FILE=REGISTRY ABB=ON
                                          PLU=ON
L153(
                                                  L153 AND "2+"
L154(
             34) SEA FILE=REGISTRY ABB=ON
                                          PLU=ON
L155(
                                                   "CA" AND "ION"
            325) SEA FILE=REGISTRY ABB=ON
                                          PLU=ON
L156(
             13) SEA FILE=REGISTRY ABB=ON
                                           PLU=ON
                                                  L155 AND "2+"
                                                   ("ZN" OR "MG" OR "MN" OR
L157(
           1164) SEA FILE=REGISTRY ABB=ON
                                          PLU=ON
                "BA" OR "SR") AND "ION"
             96) SEA FILE=REGISTRY ABB=ON PLU=ON L157 AND "2+"
L158(
L159(
              1) SEA FILE=REGISTRY ABB=ON
                                          PLU=ON
                                                  STRONTIUM/CN
L160(
              1) SEA FILE=REGISTRY ABB=ON
                                          PLU=ON
                                                   BARIUM/CN
L161(
              1) SEA FILE=REGISTRY ABB=ON
                                          PLU=ON
                                                   BERYLLIUM/CN
              8) SEA FILE=REGISTRY ABB=ON
                                          PLU=ON
                                                   "BE" AND "ION" AND "2+"
L162(
            157) SEA FILE=REGISTRY ABB=ON PLU=ON L152 OR L154 OR L156 OR
L163(
                 (L158 OR L159 OR L160 OR L161 OR L162)
L164(
          71131) SEA FILE=HCAPLUS ABB=ON PLU=ON L150
L165(
          66401) SEA FILE=HCAPLUS ABB=ON
                                         PLU=ON L151
L166(
         694516) SEA FILE=HCAPLUS ABB=ON
                                         PLU=ON L163
L167(
          38397) SEA FILE=HCAPLUS ABB=ON
                                         PLU=ON L164(L)(BIOL OR THU OR PKT OR
                DMA OR PAC OR BAC)/RL
L168(
          15456) SEA FILE=HCAPLUS ABB=ON
                                         PLU=ON L165(L) (BIOL OR THU OR PKT OR
                DMA OR PAC OR BAC)/RL
         283297) SEA FILE=HCAPLUS ABB=ON PLU=ON L166(L) (BIOL OR THU OR PKT OR
L169(
                DMA OR PAC OR BAC)/RL
L170_(_
             99) SEA FILE=HCAPLUS ABB=ON PLU=ON L167 AND L168 AND L169
             12 SEA FILE-HCAPLUS ABB=ON PLU=ON L170 AND ?THROMB? / 12 cites
L171
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^{=&}gt; d que 1244

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L203(
           1348) SEA FILE=HCAPLUS ABB=ON
                                         PLU=ON
                                                 HEMOSTATICS+PFT/CT
L204 (
           1979) SEA FILE=HCAPLUS ABB=ON
                                         PLU=ON
                                                 THROMBOLYTICS/CT
                                         PLU=ON
                                                 BLOOD-COAGULATION FACTORS+NT, P
L205(
          28185) SEA FILE=HCAPLUS ABB=ON
                FT/CT
          17110) SEA FILE=HCAPLUS ABB=ON
                                         PLU=ON
                                                 BLOOD COAGULATION+NT, PFT/CT
L206(
                                         PLU=ON
                                                 POLYSACCHARIDES/CT
L207 (
          39782) SEA FILE=HCAPLUS ABB=ON
L208 (
          13146) SEA FILE=HCAPLUS ABB=ON
                                         PLU=ON
                                                 URONIC ACIDS+NT, PFT/CT
          29770) SEA FILE=HCAPLUS ABB=ON
                                         PLU=ON
                                                 (L207 OR L208) (L) (BIOL OR THU
L209(
                OR DMA OR BCP OR BAC OR PKT OR PAC)/RL
L210(
          64826) SEA FILE=HCAPLUS ABB=ON
                                        PLU=ON PEG OR 25322-68-3/RN
L211(
             91)SEA FILE=REGISTRY ABB=ON PLU=ON (25322-68-3/BI OR 9004-32-4/B
                I OR 106392-12-5/BI OR 1398-61-4/BI OR 25322-69-4/BI OR
                83512-85-0/BI OR 9000-69-5/BI OR 9004-42-6/BI OR 9004-61-9/BI
                OR 9005-32-7/BI OR 9005-49-6/BI OR 9007-28-7/BI OR 9044-05-7/BI
                 OR 25087-26-7/BI OR 26009-03-0/BI OR 26023-30-3/BI OR
                26100-51-6/BI OR 26124-68-5/BI OR 26876-05-1/BI OR 28728-97-4/B
                I OR 29894-36-8/BI OR 36562-70-6/BI OR 36655-86-4/BI OR
                50851-57-5/BI OR 9003-01-4/BI OR 9005-37-2/BI OR 9050-30-0/BI
                OR 101-40-6/BI OR 102-76-1/BI OR 106-69-4/BI OR 107-21-1/BI OR
                111-29-5/BI OR 114959-05-6/BI OR 139639-23-9/BI OR 14838-15-4/B
                I OR 15687-27-1/BI OR 22071-15-4/BI OR 25395-31-7/BI OR
                26446-35-5/BI OR 299-42-3/BI OR 390-28-3/BI OR 50-78-2/BI OR
                51-41-2/BI OR 51-43-4/BI OR 51-61-6/BI OR 54-49-9/BI OR
                56-81-5/BI OR 57-55-6/BI OR 7429-90-5/BI OR 7439-89-6/BI OR
                7439-95-4/BI OR 7439-96-5/BI OR 7440-47-3/BI OR 7440-66-6/BI
                OR 7440-70-2/BI OR 77-99-6/BI OR 9002-04-4/BI OR 11129-12-7/BI
                OR 124-38-9/BI OR 126-44-3/BI OR 131854-14-3/BI OR 131878-61-0/
                BI OR 1320-50-9/BI OR 14066-19-4/BI OR 14127-61-8/BI OR
                14265-44-2/BI OR 14808-79-8/BI OR 16065-83-1/BI OR 16397-91-4/B
                I OR 16887-00-6/BI OR 20074-52-6/BI OR 22537-22-0/BI OR
                22537-23-1/BI OR 23713-49-7/BI OR 338-70-5/BI OR 3812-32-6/BI
                OR 52352-27-9/BI OR 52519-63-8/BI OR 71-50-1/BI OR 71-52-3/BI
                OR 75-21-8/BI OR 7664-41-7/BI OR 7727-37-9/BI OR 9002-89-5/BI
                OR 9003-39-8/BI OR 9004-62-0/BI OR 9004-64-2/BI OR 9004-65-3/BI
                 OR 9004-67-5/BI OR 9005-25-8/BI OR 9005-79-2/BI)
L212(
              8) SEA FILE=REGISTRY ABB=ON PLU=ON L211 AND (CA OR ZN OR MG OR
                MN) /ELS
            209) SEA FILE=REGISTRY ABB=ON PLU=ON
                                                  "FE" AND "ION"
L213(
                                                  L213 AND "2+"
L214(
             34) SEA FILE=REGISTRY ABB=ON
                                          PLU=ON
L215(
            325) SEA FILE=REGISTRY ABB=ON
                                          PLU=ON
                                                  "CA" AND "ION"
L216(
             13) SEA FILE=REGISTRY ABB=ON
                                          PLU=ON
                                                  L215 AND "2+"
                                                  ("ZN" OR "MG" OR "MN" OR
L217(
           1164) SEA FILE=REGISTRY ABB=ON
                                          PLU=ON
                "BA" OR "SR") AND "ION"
L218(
             96) SEA FILE=REGISTRY ABB=ON PLU=ON L217 AND "2+"
L219(
              1) SEA FILE=REGISTRY ABB=ON PLU=ON STRONTIUM/CN
L220(
              1) SEA FILE=REGISTRY ABB=ON PLU=ON BARIUM/CN
L221(
              1) SEA FILE=REGISTRY ABB=ON PLU=ON
                                                  BERYLLIUM/CN
                                                  "BE" AND "ION" AND "2+"
L222(
              8) SEA FILE=REGISTRY ABB=ON PLU=ON
L223(
            157) SEA FILE=REGISTRY ABB=ON PLU=ON L212 OR L214 OR L216 OR
                (L218 OR L219 OR L220 OR L221 OR L222)
L224(
             91) SEA FILE=REGISTRY ABB=ON PLU=ON (25322-68-3/BI OR 9004-32-4/B
                I OR 106392-12-5/BI OR 1398-61-4/BI OR 25322-69-4/BI OR
                83512-85-0/BI OR 9000-69-5/BI OR 9004-42-6/BI OR 9004-61-9/BI
                OR 9005-32-7/BI OR 9005-49-6/BI OR 9007-28-7/BI OR 9044-05-7/BI
                 OR 25087-26-7/BI OR 26009-03-0/BI OR 26023-30-3/BI OR
                26100-51-6/BI OR 26124-68-5/BI OR 26876-05-1/BI OR 28728-97-4/B
                I OR 29894-36-8/BI OR 36562-70-6/BI OR 36655-86-4/BI OR
                50851-57-5/BI OR 9003-01-4/BI OR 9005-37-2/BI OR 9050-30-0/BI
                OR 101-40-6/BI OR 102-76-1/BI OR 106-69-4/BI OR 107-21-1/BI OR
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111-29-5/BI OR 114959-05-6/BI OR 139639-23-9/BI OR 14838-15-4/B
                I OR 15687-27-1/BI OR 22071-15-4/BI OR 25395-31-7/BI OR
                26446-35-5/BI OR 299-42-3/BI OR 390-28-3/BI OR 50-78-2/BI OR
                51-41-2/BI OR 51-43-4/BI OR 51-61-6/BI OR 54-49-9/BI OR
                56-81-5/BI OR 57-55-6/BI OR 7429-90-5/BI OR 7439-89-6/BI OR
                7439-95-4/BI OR 7439-96-5/BI OR 7440-47-3/BI OR 7440-66-6/BI
                OR 7440-70-2/BI OR 77-99-6/BI OR 9002-04-4/BI OR 11129-12-7/BI
                OR 124-38-9/BI OR 126-44-3/BI OR 131854-14-3/BI OR 131878-61-0/
                BI OR 1320-50-9/BI OR 14066-19-4/BI OR 14127-61-8/BI OR
                14265-44-2/BI OR 14808-79-8/BI OR 16065-83-1/BI OR 16397-91-4/B
                I OR 16887-00-6/BI OR 20074-52-6/BI OR 22537-22-0/BI OR
                22537-23-1/BI OR 23713-49-7/BI OR 338-70-5/BI OR 3812-32-6/BI
               OR 52352-27-9/BI OR 52519-63-8/BI OR 71-50-1/BI OR 71-52-3/BI
               OR 75-21-8/BI OR 7664-41-7/BI OR 7727-37-9/BI OR 9002-89-5/BI
               OR 9003-39-8/BI OR 9004-62-0/BI OR 9004-64-2/BI OR 9004-65-3/BI
                 OR 9004-67-5/BI OR 9005-25-8/BI OR 9005-79-2/BI)
             1) SEA FILE=REGISTRY ABB=ON PLU=ON L224 AND "HEPARAN"
L225(
             1) SEA FILE=REGISTRY ABB=ON PLU=ON L224 AND "HEPARIN"
L226(
             8) SEA FILE=REGISTRY ABB=ON PLU=ON L224 AND "CELLULOSE"
L227(
             1) SEA FILE=REGISTRY ABB=ON PLU=ON
                                                 L224 AND "CHONDROITIN"
L228 (
             1) SEA FILE=REGISTRY ABB=ON PLU=ON
                                                 L224 AND "HYALURONIC"
L229(
             1) SEA FILE=REGISTRY ABB=ON PLU=ON
                                                 L224 AND "DEXTRAN"
L230(
                                                 L224 AND "CHITOSAN"
L231(
             2) SEA FILE=REGISTRY ABB=ON
                                         PLU=ON
             15) SEA FILE=REGISTRY ABB=ON PLU=ON
L232(
                                                 (L225 OR L226 OR L227 OR
                L228 OR L229 OR L230 OR L231)
            371) SEA FILE=REGISTRY ABB=ON PLU=ON
                                                  "ALGINIC"
L233(
L234(
            293) SEA FILE=REGISTRY ABB=ON
                                                  "ALGINATE"
                                         PLU=ON
            450) SEA FILE=REGISTRY ABB=ON PLU=ON
L235(
                                                 (L233 OR L234)
         694600) SEA FILE=HCAPLUS ABB=ON PLU=ON L223
L236(
L237(
         283335)SEA FILE=HCAPLUS ABB=ON PLU=ON L236(L)(BIOL OR THU OR DMA OR
                BCP OR BAC OR PKT OR PAC)/RL
L238(
          71147) SEA FILE=HCAPLUS ABB=ON PLU=ON
L239(
          38408) SEA FILE=HCAPLUS ABB=ON PLU=ON
                                                L238(L) (BIOL OR THU OR DMA OR
               BCP OR BAC OR PKT OR PAC)/RL
          16008) SEA FILE=HCAPLUS ABB=ON
L240(
                                       PLU=ON L235
L241(
          9033) SEA FILE=HCAPLUS ABB=ON PLU=ON L240(L) (BIOL OR THU OR DMA OR
                BCP OR BAC OR PKT OR PAC)/RL
L242(
           3376) SEA FILE=HCAPLUS ABB=ON PLU=ON L210 AND (L209 OR L239 OR
L243(
            137) SEA FILE=HCAPLUS ABB=ON PLU=ON L242 AND L237
              9 SEA FILE=HCAPLUS ABB=ON PLU=ON L243 AND (L203 OR L204 OR
               (L205 OR-L206)
                                        cites
                          gung display gove on through p12.
=> d que 1417 6 this
                                                                     PFT = preferred &
forbidden
L257(
         418531) SEA FILE=HCAPLUS ABB=ON PLU=ON CATIONS+PFT, NT/CT
L258 (
          1348) SEA FILE=HCAPLUS ABB=ON PLU=ON HEMOSTATICS+PFT/CT
L259(
          1979) SEA FILE=HCAPLUS ABB=ON PLU=ON THROMBOLYTICS/CT
          28185)SEA FILE=HCAPLUS ABB=ON PLU=ON BLOOD-COAGULATION FACTORS+NT,P
L260(
                FT/CT
L261(
         17110) SEA FILE=HCAPLUS ABB=ON PLU=ON BLOOD COAGULATION+NT, PFT/CT
L262(
          39782)SEA FILE=HCAPLUS ABB=ON PLU=ON POLYSACCHARIDES/CT
         13146) SEA FILE=HCAPLUS ABB=ON PLU=ON URONIC ACIDS+NT, PFT/CT
L263(
         29770) SEA FILE=HCAPLUS ABB=ON PLU=ON (L262 OR L263) (L) (BIOL OR THU
L264 (
               OR DMA OR BCP OR BAC OR PKT OR PAC)/RL
          46803) SEA FILE=HCAPLUS ABB=ON PLU=ON L257(L) (BIOL OR THU OR DMA OR
L265(
               BCP OR BAC OR PKT OR PAC)/RL
L266(
          64826) SEA FILE=HCAPLUS ABB=ON PLU=ON PEG OR 25322-68-3/RN
           750) SEA FILE=HCAPLUS ABB=ON PLU=ON L264 AND L266
L267(
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L268 (40) SEA FILE=HCAPLUS ABB=ON PLU=ON L267 AND L257
L269(3) SEA FILE=HCAPLUS ABB=ON PLU=ON L268 AND (L258 OR L259 OR
	L260 OR L261)
L270(91) SEA FILE=REGISTRY ABB=ON PLU=ON (25322-68-3/BI OR 9004-32-4/B
	I OR 106392-12-5/BI OR 1398-61-4/BI OR 25322-69-4/BI OR
	83512-85-0/BI OR 9000-69-5/BI OR 9004-42-6/BI OR 9004-61-9/BI
	OR 9005-32-7/BI OR 9005-49-6/BI OR 9007-28-7/BI OR 9044-05-7/BI
	OR 25087-26-7/BI OR 26009-03-0/BI OR 26023-30-3/BI OR
	26100-51-6/BI OR 26124-68-5/BI OR 26876-05-1/BI OR 28728-97-4/B
	I OR 29894-36-8/BI OR 36562-70-6/BI OR 36655-86-4/BI OR
	50851-57-5/BI OR 9003-01-4/BI OR 9005-37-2/BI OR 9050-30-0/BI
	OR 101-40-6/BI OR 102-76-1/BI OR 106-69-4/BI OR 107-21-1/BI OR
	111-29-5/BI OR 114959-05-6/BI OR 139639-23-9/BI OR 14838-15-4/B
	I OR 15687-27-1/BI OR 22071-15-4/BI OR 25395-31-7/BI OR
	26446-35-5/BI OR 299-42-3/BI OR 390-28-3/BI OR 50-78-2/BI OR
	51-41-2/BI OR 51-43-4/BI OR 51-61-6/BI OR 54-49-9/BI OR
	56-81-5/BI OR 57-55-6/BI OR 7429-90-5/BI OR 7439-89-6/BI OR
	7439-95-4/BI OR 7439-96-5/BI OR 7440-47-3/BI OR 7440-66-6/BI
	OR 7440-70-2/BI OR 77-99-6/BI OR 9002-04-4/BI OR 11129-12-7/BI
	OR 124-38-9/BI OR 126-44-3/BI OR 131854-14-3/BI OR 131878-61-0/
	BI OR 1320-50-9/BI OR 14066-19-4/BI OR 14127-61-8/BI OR
	14265-44-2/BI OR 14808-79-8/BI OR 16065-83-1/BI OR 16397-91-4/B
	I OR 16887-00-6/BI OR 20074-52-6/BI OR 22537-22-0/BI OR
	22537-23-1/BI OR 23713-49-7/BI OR 338-70-5/BI OR 3812-32-6/BI
	OR 52352-27-9/BI OR 52519-63-8/BI OR 71-50-1/BI OR 71-52-3/BI
	OR 75-21-8/BI OR 7664-41-7/BI OR 7727-37-9/BI OR 9002-89-5/BI
	OR 9003-39-8/BI OR 9004-62-0/BI OR 9004-64-2/BI OR 9004-65-3/BI
	OR 9004-67-5/BI OR 9005-25-8/BI OR 9005-79-2/BI)
L271(8) SEA FILE=REGISTRY ABB=ON PLU=ON L270 AND (CA OR ZN OR MG OR
- 070 /	MN)/ELS
L272(209) SEA FILE=REGISTRY ABB=ON PLU=ON "FE" AND "ION"
L273(34) SEA FILE=REGISTRY ABB=ON PLU=ON L272 AND "2+"
L274 (325) SEA FILE-REGISTRY ABB-ON PLU-ON "CA" AND "ION"
L275(13)SEA FILE=REGISTRY ABB=ON PLU=ON L274 AND "2+" 1164)SEA FILE=REGISTRY ABB=ON PLU=ON ("ZN" OR "MG" OR "MN" OR
L276(1164)SEA FILE=REGISTRY ABB=ON PLU=ON ("ZN" OR "MG" OR "MN" OR "BA" OR "SR") AND "ION"
L277(96)SEA FILE=REGISTRY ABB=ON PLU=ON L276 AND "2+"
L278(1) SEA FILE=REGISTRY ABB=ON PLU=ON STRONTIUM/CN
L279(1) SEA FILE=REGISTRY ABB=ON PLU=ON BARIUM/CN
L280(1) SEA FILE=REGISTRY ABB=ON PLU=ON BERYLLIUM/CN
L281(8) SEA FILE=REGISTRY ABB=ON PLU=ON "BE" AND "ION" AND "2+"
L282 (157) SEA FILE=REGISTRY ABB=ON PLU=ON L271 OR L273 OR L275 OR
	(L277 OR L278 OR L279 OR L280 OR L281)
L283(91) SEA FILE=REGISTRY ABB=ON PLU=ON (25322-68-3/BI OR 9004-32-4/B
	I OR 106392-12-5/BI OR 1398-61-4/BI OR 25322-69-4/BI OR
	83512-85-0/BI OR 9000-69-5/BI OR 9004-42-6/BI OR 9004-61-9/BI
	OR 9005-32-7/BI OR 9005-49-6/BI OR 9007-28-7/BI OR 9044-05-7/BI
	OR 25087-26-7/BI OR 26009-03-0/BI OR 26023-30-3/BI OR
	26100-51-6/BI OR 26124-68-5/BI OR 26876-05-1/BI OR 28728-97-4/B
	I OR 29894-36-8/BI OR 36562-70-6/BI OR 36655-86-4/BI OR
	50851-57-5/BI OR 9003-01-4/BI OR 9005-37-2/BI OR 9050-30-0/BI
	OR 101-40-6/BI OR 102-76-1/BI OR 106-69-4/BI OR 107-21-1/BI OR
	111-29-5/BI OR 114959-05-6/BI OR 139639-23-9/BI OR 14838-15-4/B
	I OR 15687-27-1/BI OR 22071-15-4/BI OR 25395-31-7/BI OR
	26446-35-5/BI OR 299-42-3/BI OR 390-28-3/BI OR 50-78-2/BI OR
	51-41-2/BI OR 51-43-4/BI OR 51-61-6/BI OR 54-49-9/BI OR
	56-81-5/BI OR 57-55-6/BI OR 7429-90-5/BI OR 7439-89-6/BI OR
	7439-95-4/BI OR 7439-96-5/BI OR 7440-47-3/BI OR 7440-66-6/BI
	OR 7440-70-2/BI OR 77-99-6/BI OR 9002-04-4/BI OR 11129-12-7/BI
	OR 124-38-9/BI OR 126-44-3/BI OR 131854-14-3/BI OR 131878-61-0/

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BI OR 1320-50-9/BI OR 14066-19-4/BI OR 14127-61-8/BI OR
                14265-44-2/BI OR 14808-79-8/BI OR 16065-83-1/BI OR 16397-91-4/B
                I OR 16887-00-6/BI OR 20074-52-6/BI OR 22537-22-0/BI OR
                22537-23-1/BI OR 23713-49-7/BI OR 338-70-5/BI OR 3812-32-6/BI
                OR 52352-27-9/BI OR 52519-63-8/BI OR 71-50-1/BI OR 71-52-3/BI
                OR 75-21-8/BI OR 7664-41-7/BI OR 7727-37-9/BI OR 9002-89-5/BI
                OR 9003-39-8/BI OR 9004-62-0/BI OR 9004-64-2/BI OR 9004-65-3/BI
                 OR 9004-67-5/BI OR 9005-25-8/BI OR 9005-79-2/BI)
L284(
              1) SEA FILE=REGISTRY ABB=ON
                                          PLU≔ON
                                                   L283 AND "HEPARAN"
                                                   L283 AND "HEPARIN"
L285(
              1) SEA FILE=REGISTRY ABB=ON
                                          PLU=ON
                                                   L283 AND "CELLULOSE"
L286(
              8) SEA FILE=REGISTRY ABB=ON
                                          PLU=ON
                                                   L283 AND "CHONDROITIN"
L287(
              1) SEA FILE=REGISTRY ABB=ON
                                          PLU=ON
                                                   L283 AND "HYALURONIC"
L288(
              1) SEA FILE=REGISTRY ABB=ON
                                           PLU=ON
                                                   L283 AND "DEXTRAN"
L289(
              1) SEA FILE=REGISTRY ABB=ON
                                           PLU=ON
                                                   L283 AND "CHITOSAN"
L290(
              2) SEA FILE=REGISTRY ABB=ON
                                           PLU=ON
L291(
             15) SEA FILE=REGISTRY ABB=ON
                                           PLU=ON
                                                   (L284 OR L285 OR L286 OR
                L287 OR L288 OR L289 OR L290)
                                                   "ALGINIC"
L292(
            371) SEA FILE=REGISTRY ABB=ON
                                          PLU=ON
            293) SEA FILE=REGISTRY ABB=ON
                                                   "ALGINATE"
L293(
                                          PLU=ON
            450) SEA FILE=REGISTRY ABB=ON
L294 (
                                          PLU=ON
                                                   (L292 OR L293)
L295(
         694600) SEA FILE=HCAPLUS ABB=ON
                                         PLU=ON
                                                 L282
         283335) SEA FILE=HCAPLUS ABB=ON
L296(
                                         PLU=ON
                                                 L295(L) (BIOL OR THU OR DMA OR
                BCP OR BAC OR PKT OR PAC)/RL
          71147) SEA FILE=HCAPLUS ABB=ON
L297(
                                         PLU=ON
                                                 L291
          38408) SEA FILE=HCAPLUS ABB=ON
                                                 L297(L) (BIOL OR THU OR DMA OR
L298(
                                         PLU=ON
                BCP OR BAC OR PKT OR PAC)/RL
L299(
          16008) SEA FILE=HCAPLUS ABB=ON
                                                 L294
                                         PLU=ON
L300(
           9033) SEA FILE=HCAPLUS ABB=ON
                                         PLU=ON
                                                 L299(L) (BIOL OR THU OR DMA OR
                BCP OR BAC OR PKT OR PAC)/RL
L301(
           3376) SEA FILE=HCAPLUS ABB=ON
                                         PLU=ON L266 AND (L264 OR L298 OR
                L300)
            137) SEA FILE=HCAPLUS ABB=ON
                                         PLU=ON
                                                 L301 AND L296
L302(
L303(
              9) SEA FILE=HCAPLUS ABB=ON
                                         PLU=ON
                                                 L302 AND (L258 OR L259 OR
                L260 OR L261)
L304(
             91) SEA FILE=REGISTRY ABB=ON PLU=ON
                                                  (25322-68-3/BI OR 9004-32-4/B
                I OR 106392-12-5/BI OR 1398-61-4/BI OR 25322-69-4/BI OR
                83512-85-0/BI OR 9000-69-5/BI OR 9004-42-6/BI OR 9004-61-9/BI
                OR 9005-32-7/BI OR 9005-49-6/BI OR 9007-28-7/BI OR 9044-05-7/BI
                 OR 25087-26-7/BI OR 26009-03-0/BI OR 26023-30-3/BI OR
                26100-51-6/BI OR 26124-68-5/BI OR 26876-05-1/BI OR 28728-97-4/B
                I OR 29894-36-8/BI OR 36562-70-6/BI OR 36655-86-4/BI OR
                50851-57-5/BI OR 9003-01-4/BI OR 9005-37-2/BI OR 9050-30-0/BI
                OR 101-40-6/BI OR 102-76-1/BI OR 106-69-4/BI OR 107-21-1/BI OR
                111-29-5/BI OR 114959-05-6/BI OR 139639-23-9/BI OR 14838-15-4/B
                I OR 15687-27-1/BI OR 22071-15-4/BI OR 25395-31-7/BI OR
                26446-35-5/BI OR 299-42-3/BI OR 390-28-3/BI OR 50-78-2/BI OR
                51-41-2/BI OR 51-43-4/BI OR 51-61-6/BI OR 54-49-9/BI OR
                56-81-5/BI OR 57-55-6/BI OR 7429-90-5/BI OR 7439-89-6/BI OR
                7439-95-4/BI OR 7439-96-5/BI OR 7440-47-3/BI OR 7440-66-6/BI
               OR 7440-70-2/BI OR 77-99-6/BI OR 9002-04-4/BI OR 11129-12-7/BI
                OR 124-38-9/BI OR 126-44-3/BI OR 131854-14-3/BI OR 131878-61-0/
                BI OR 1320-50-9/BI OR 14066-19-4/BI OR 14127-61-8/BI OR
                14265-44-2/BI OR 14808-79-8/BI OR 16065-83-1/BI OR 16397-91-4/B
                I OR 16887-00-6/BI OR 20074-52-6/BI OR 22537-22-0/BI OR
                22537-23-1/BI OR 23713-49-7/BI OR 338-70-5/BI OR 3812-32-6/BI
                OR 52352-27-9/BI OR 52519-63-8/BI OR 71-50-1/BI OR 71-52-3/BI
                OR 75-21-8/BI OR 7664-41-7/BI OR 7727-37-9/BI OR 9002-89-5/BI
                OR 9003-39-8/BI OR 9004-62-0/BI OR 9004-64-2/BI OR 9004-65-3/BI
                 OR 9004-67-5/BI OR 9005-25-8/BI OR 9005-79-2/BI)
L305(
              1) SEA FILE=REGISTRY ABB=ON PLU=ON L304 AND "HEPARAN"
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L306(
              1) SEA FILE=REGISTRY ABB=ON
                                           PLU=ON L304 AND "HEPARIN"
L307(
              8) SEA FILE=REGISTRY ABB=ON
                                           PLU=ON
                                                   L304 AND "CELLULOSE"
L308(
              1) SEA FILE=REGISTRY ABB=ON
                                           PLU=ON
                                                   L304 AND "CHONDROITIN"
              1) SEA FILE=REGISTRY ABB=ON
                                           PLU=ON
                                                   L304 AND "HYALURONIC"
L309(
              1) SEA FILE=REGISTRY ABB=ON
                                           PLU=ON
                                                   L304 AND "DEXTRAN"
L310(
                                                   L304 AND "CHITOSAN"
              2) SEA FILE=REGISTRY ABB=ON
                                           PLU=ON
L311(
             15) SEA FILE=REGISTRY ABB=ON
                                           PLU=ON
                                                   (L305 OR L306 OR L307 OR
L312(
                L308 OR L309 OR L310 OR L311)
L313(
              1) SEA FILE=REGISTRY ABB=ON
                                           PLU=ON
                                                   25322-68-3
L314(
              8) SEA FILE=REGISTRY ABB=ON
                                           PLU=ON
                                                   L304 AND (CA OR ZN OR MG OR
                MN)/ELS
                                                   "FE" AND "ION"
L315(
            209) SEA FILE=REGISTRY ABB=ON
                                           PLU=ON
                                                   L315 AND "2+"
L316(
             34) SEA FILE=REGISTRY ABB=ON
                                           PLU=ON
                                                   "CA" AND "ION"
L317(
            325) SEA FILE=REGISTRY ABB=ON
                                           PLU=ON
                                                   L317 AND "2+"
L318(
             13) SEA FILE=REGISTRY ABB=ON
                                           PLU=ON
                                                   ("ZN" OR "MG" OR "MN" OR
L319(
           1164) SEA FILE=REGISTRY ABB=ON
                                           PLU=ON
                "BA" OR "SR") AND "ION"
                                                  L319 AND "2+"
L320(
             96) SEA FILE=REGISTRY ABB=ON
                                           PLU=ON
L321(
              1) SEA FILE=REGISTRY ABB=ON
                                           PLU=ON
                                                   STRONTIUM/CN
              1) SEA FILE=REGISTRY ABB=ON
L322(
                                           PLU=ON
                                                   BARIUM/CN
L323(
              1) SEA FILE=REGISTRY ABB=ON
                                           PLU=ON
                                                   BERYLLIUM/CN
                                                   "BE" AND "ION" AND "2+"
              8) SEA FILE=REGISTRY ABB=ON
L324(
                                           PLU≔ON
            157) SEA FILE=REGISTRY ABB=ON
                                          PLU=ON L314 OR L316 OR L318 OR
L325(
                (L320 OR L321 OR L322 OR L323 OR L324)
          71131) SEA FILE=HCAPLUS ABB=ON
L326(
                                          PLU=ON
                                                 L312
          66401) SEA FILE=HCAPLUS ABB=ON
                                          PLU=ON
                                                  L313
L327(
L328(
         694516) SEA FILE=HCAPLUS ABB=ON
                                          PLU=ON
                                                  L325
          38397) SEA FILE=HCAPLUS ABB=ON
                                          PLU=ON
                                                 L326(L) (BIOL OR THU OR PKT OR
L329(
                DMA OR PAC OR BAC)/RL
L330(
          15456) SEA FILE=HCAPLUS ABB=ON
                                         PLU=ON L327(L) (BIOL OR THU OR PKT OR
                DMA OR PAC OR BAC)/RL
         283297) SEA FILE=HCAPLUS ABB=ON
                                         PLU=ON L328(L)(BIOL OR THU OR PKT OR
L331(
                DMA OR PAC OR BAC)/RL
             99)SEA FILE=HCAPLUS ABB=ON PLU=ON L329 AND L330 AND L331
L332(
         133270) SEA FILE=HCAPLUS ABB=ON
L333(
                                         PLU=ON DRUG DELIVERY SYSTEMS+NT,OLD/C
                Т
L334(
             53) SEA FILE=HCAPLUS ABB=ON PLU=ON L332 AND L333
L335(
             12) SEA FILE=HCAPLUS ABB=ON PLU=ON L334 AND GEL
             91) SEA FILE=REGISTRY ABB=ON PLU=ON (25322-68-3/BI OR 9004-32-4/B
L336(
                I OR 106392-12-5/BI OR 1398-61-4/BI OR 25322-69-4/BI OR
                83512-85-0/BI OR 9000-69-5/BI OR 9004-42-6/BI OR 9004-61-9/BI
                OR 9005-32-7/BI OR 9005-49-6/BI OR 9007-28-7/BI OR 9044-05-7/BI
                 OR 25087-26-7/BI OR 26009-03-0/BI OR 26023-30-3/BI OR
                26100-51-6/BI OR 26124-68-5/BI OR 26876-05-1/BI OR 28728-97-4/B
                I OR 29894-36-8/BI OR 36562-70-6/BI OR 36655-86-4/BI OR
                50851-57-5/BI OR 9003-01-4/BI OR 9005-37-2/BI OR 9050-30-0/BI
                OR 101-40-6/BI OR 102-76-1/BI OR 106-69-4/BI OR 107-21-1/BI OR
                111-29-5/BI OR 114959-05-6/BI OR 139639-23-9/BI OR 14838-15-4/B
                I OR 15687-27-1/BI OR 22071-15-4/BI OR 25395-31-7/BI OR
                26446-35-5/BI OR 299-42-3/BI OR 390-28-3/BI OR 50-78-2/BI OR
                51-41-2/BI OR 51-43-4/BI OR 51-61-6/BI OR 54-49-9/BI OR
                56-81-5/BI OR 57-55-6/BI OR 7429-90-5/BI OR 7439-89-6/BI OR
                7439-95-4/BI OR 7439-96-5/BI OR 7440-47-3/BI OR 7440-66-6/BI
                OR 7440-70-2/BI OR 77-99-6/BI OR 9002-04-4/BI OR 11129-12-7/BI
                OR 124-38-9/BI OR 126-44-3/BI OR 131854-14-3/BI OR 131878-61-0/
                BI OR 1320-50-9/BI OR 14066-19-4/BI OR 14127-61-8/BI OR
                14265-44-2/BI OR 14808-79-8/BI OR 16065-83-1/BI OR 16397-91-4/B
                I OR 16887-00-6/BI OR 20074-52-6/BI OR 22537-22-0/BI OR
                22537-23-1/BI OR 23713-49-7/BI OR 338-70-5/BI OR 3812-32-6/BI
                OR 52352-27-9/BI OR 52519-63-8/BI OR 71-50-1/BI OR 71-52-3/BI
```

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OR 75-21-8/BI OR 7664-41-7/BI OR 7727-37-9/BI OR 9002-89-5/BI
                 OR 9003-39-8/BI OR 9004-62-0/BI OR 9004-64-2/BI OR 9004-65-3/BI
                  OR 9004-67-5/BI OR 9005-25-8/BI OR 9005-79-2/BI)
 L337(
               1) SEA FILE=REGISTRY ABB=ON
                                           PLU=ON
                                                    L336 AND "HEPARAN"
 L338(
               1) SEA FILE=REGISTRY ABB=ON
                                            PLU=ON
                                                    L336 AND "HEPARIN"
 L339(
               8) SEA FILE=REGISTRY ABB=ON
                                            PLU=ON
                                                    L336 AND "CELLULOSE"
 L340(
               1) SEA FILE=REGISTRY ABB=ON
                                            PLU=ON
                                                    L336 AND "CHONDROITIN"
 L341(
               1) SEA FILE=REGISTRY ABB=ON
                                            PLU=ON
                                                    L336 AND "HYALURONIC"
 L342(
               1) SEA FILE=REGISTRY ABB=ON
                                            PLU=ON
                                                    L336 AND "DEXTRAN"
 L343(
               2) SEA FILE=REGISTRY ABB=ON
                                            PLU=ON
                                                    L336 AND "CHITOSAN"
                                            PLU=ON
 L344(
              15) SEA FILE=REGISTRY ABB=ON
                                                    (L337 OR L338 OR L339 OR
                 L340 OR L341 OR L342 OR L343)
 L345(
               1) SEA FILE=REGISTRY ABB=ON
                                            PLU=ON
                                                    25322-68-3
 L346(
               8) SEA FILE=REGISTRY ABB=ON
                                            PLU=ON
                                                    L336 AND (CA OR ZN OR MG OR
                 MN)/ELS
 L347(
             209) SEA FILE=REGISTRY ABB=ON
                                            PLU=ON
                                                    "FE" AND "ION"
                                                    L347 AND "2+"
              34) SEA FILE=REGISTRY ABB=ON
                                            PLU=ON
 L348(
             325) SEA FILE=REGISTRY ABB=ON
                                            PLU=ON
                                                    "CA" AND "ION"
 L349(
                                                    L349 AND "2+"
 L350(
              13) SEA FILE=REGISTRY ABB=ON
                                            PLU=ON
                                                    ("ZN" OR "MG" OR "MN" OR
 L351(
            1164) SEA FILE=REGISTRY ABB=ON
                                            PLU=ON
                  "BA" OR "SR") AND "ION"
L352(
              96) SEA FILE=REGISTRY ABB=ON
                                            PLU=ON
                                                    L351 AND "2+"
 L353(
               1) SEA FILE=REGISTRY ABB=ON
                                            PLU=ON
                                                    STRONTIUM/CN
 L354(
               1) SEA FILE=REGISTRY ABB=ON
                                            PLU=ON
                                                    BARIUM/CN
 L355(
               1) SEA FILE=REGISTRY ABB=ON
                                            PLU=ON
                                                    BERYLLIUM/CN
                                                    "BE" AND "ION" AND "2+"
               8) SEA FILE=REGISTRY ABB=ON
 L356(
                                            PLU=ON
             157) SEA FILE=REGISTRY ABB=ON
 L357(
                                            PLU=ON
                                                    L346 OR L348 OR L350 OR
                  (L352 OR L353 OR L354 OR L355 OR L356)
 L358(
           71131) SEA FILE=HCAPLUS ABB=ON
                                           PLU=ON
                                                   L344
           66401) SEA FILE=HCAPLUS ABB=ON
                                           PLU=ON
                                                   L345
 L359(
          694516) SEA FILE=HCAPLUS ABB=ON
                                           PLU=ON
                                                   L357
 L360(
           38397) SEA FILE=HCAPLUS ABB=ON
                                           PLU=ON
                                                  L358(L)(BIOL OR THU OR PKT OR
 L361(
                 DMA OR PAC OR BAC)/RL
 L362(
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                 DMA OR PAC OR BAC)/RL
                                           PLU=ON L360(L) (BIOL OR THU OR PKT OR
          283297) SEA FILE=HCAPLUS ABB=ON
 L363(
                 DMA OR PAC OR BAC)/RL
 L364(
              99) SEA FILE=HCAPLUS ABB=ON
                                           PLU=ON L361 AND L362 AND L363
 L365(,
              12) SEA FILE=HCAPLUS ABB=ON PLU=ON L364 AND ?THROMB?
 L366(
              91) SEA FILE=REGISTRY ABB=ON PLU=ON (25322-68-3/BI OR 9004-32-4/B
                 I OR 106392-12-5/BI OR 1398-61-4/BI OR 25322-69-4/BI OR
                 83512-85-0/BI OR 9000-69-5/BI OR 9004-42-6/BI OR 9004-61-9/BI
                 OR 9005-32-7/BI OR 9005-49-6/BI OR 9007-28-7/BI OR 9044-05-7/BI
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                 26100-51-6/BI OR 26124-68-5/BI OR 26876-05-1/BI OR 28728-97-4/B
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                 OR 7440-70-2/BI OR 77-99-6/BI OR 9002-04-4/BI OR 11129-12-7/BI
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                 BI OR 1320-50-9/BI OR 14066-19-4/BI OR 14127-61-8/BI OR
                 14265-44-2/BI OR 14808-79-8/BI OR 16065-83-1/BI OR 16397-91-4/B
                 I OR 16887-00-6/BI OR 20074-52-6/BI OR 22537-22-0/BI OR
                 22537-23-1/BI OR 23713-49-7/BI OR 338-70-5/BI OR 3812-32-6/BI
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OR 52352-27-9/BI OR 52519-63-8/BI OR 71-50-1/BI OR 71-52-3/BI
                OR 75-21-8/BI OR 7664-41-7/BI OR 7727-37-9/BI OR 9002-89-5/BI
                OR 9003-39-8/BI OR 9004-62-0/BI OR 9004-64-2/BI OR 9004-65-3/BI
                 OR 9004-67-5/BI OR 9005-25-8/BI OR 9005-79-2/BI)
L367(
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                                           PLU=ON
                                                    L366 AND "HEPARAN"
L368(
              1) SEA FILE=REGISTRY ABB=ON
                                           PLU=ON
                                                    L366 AND "HEPARIN"
L369(
              8) SEA FILE=REGISTRY ABB=ON
                                           PLU=ON
                                                    L366 AND "CELLULOSE"
L370(
              1) SEA FILE=REGISTRY ABB=ON
                                           PLU=ON
                                                    L366 AND "CHONDROITIN"
              1) SEA FILE=REGISTRY ABB=ON
L371(
                                           PLU=ON
                                                    L366 AND "HYALURONIC"
L372(
              1) SEA FILE=REGISTRY ABB=ON
                                           PLU=ON
                                                    L366 AND "DEXTRAN"
              2) SEA FILE=REGISTRY ABB=ON
                                           PLU=ON
                                                    L366 AND "CHITOSAN"
L373(
             15) SEA FILE=REGISTRY ABB=ON
                                           PLU=ON
                                                    (L367 OR L368 OR L369 OR
L374(
                L370 OR L371 OR L372 OR L373)
L375(
              1) SEA FILE=REGISTRY ABB=ON
                                           PLU=ON
                                                    25322-68-3
L376(
              8) SEA FILE=REGISTRY ABB=ON
                                           PLU=ON
                                                    L366 AND (CA OR ZN OR MG OR
                MN)/ELS
L377(
            209) SEA FILE=REGISTRY ABB=ON
                                           PLU=ON
                                                    "FE" AND "ION"
L378(
             34) SEA FILE=REGISTRY ABB=ON
                                           PLU=ON
                                                    L377 AND "2+"
                                                    "CA" AND "ION"
L379(
            325) SEA FILE=REGISTRY ABB=ON
                                           PLU=ON
                                                    L379 AND "2+"
L380(
             13) SEA FILE=REGISTRY ABB=ON
                                           PLU=ON
L381(
           1164) SEA FILE=REGISTRY ABB=ON
                                           PLU=ON
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                 "BA" OR "SR") AND "ION"
L382(
             96) SEA FILE=REGISTRY ABB=ON
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                                                    L381 AND "2+"
L383(
              1) SEA FILE=REGISTRY ABB=ON
                                           PLU=ON
                                                    STRONTIUM/CN
L384 (
              1) SEA FILE=REGISTRY ABB=ON
                                           PLU=ON
                                                    BARIUM/CN
L385(
              1) SEA FILE=REGISTRY ABB=ON
                                           PLU=ON
                                                    BERYLLIUM/CN
                                                    "BE" AND "ION" AND "2+"
L386(
              8) SEA FILE=REGISTRY ABB=ON
                                           PLU=ON
L387(
            157) SEA FILE=REGISTRY ABB=ON
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                                                    L376 OR L378 OR L380 OR
                 (L382 OR L383 OR L384 OR L385 OR L386)
L388(
          71131) SEA FILE=HCAPLUS ABB=ON
                                          PLU=ON
                                                   L374
          66401) SEA FILE=HCAPLUS ABB=ON
L389(
                                          PLU=ON
                                                   L375
         694516) SEA FILE-HCAPLUS ABB-ON
L390(
                                          PLU=ON
                                                   L387
                                                   L388(L)(BIOL OR THU OR PKT OR
L391(
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                                          PLU=ON
L392(
          15456) SEA FILE=HCAPLUS ABB=ON
                                                  L389(L) (BIOL OR THU OR PKT OR
                DMA OR PAC OR BAC)/RL
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L393(
         283297) SEA FILE=HCAPLUS ABB=ON
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                DMA OR PAC OR BAC)/RL
                                                   L391 AND L392 AND L393
L394(
             99) SEA FILE=HCAPLUS ABB=ON
                                          PLU=ON
L395(
                                          PLU=ON
                                                   "ANTICOAGULANTS AND ANTITHROMB
           5158) SEA FILE=HCAPLUS ABB=ON
                OTICS"+NT, OLD/CT
L396(
              4) SEA FILE=HCAPLUS ABB=ON
                                          PLU=0N
                                                   L394 AND L395
L397(
             91) SEA FILE=HCAPLUS ABB=ON
                                         PLU=ON
                                                  ("SCHWARTZ HERBERT E"/AU OR
                "SCHWARTZ HERBERT EDUARD"/AU OR "SCHWARTZ H"/AU OR "SCHWARTZ H
                E"/AU)
L398(
             27) SEA FILE=HCAPLUS ABB=ON
                                          PLU=ON
                                                   BLACKMORE J?/AU
L399(
             15) SEA FILE=HCAPLUS ABB=ON
                                          PLU=ON
                                                   CORTESE S?/AU
L400(
             71) SEA FILE=HCAPLUS ABB=ON
                                          PLU=ON
                                                   OPPELT W?/AU
L401(
            196) SEA FILE=HCAPLUS ABB=ON
                                          PLU=ON
                                                   (L397 OR L398 OR L399 OR
                L400)
                                          PLU=ON L401 AND POLYACID
L402(
              3) SEA FILE=HCAPLUS ABB=ON
L403(
              4) SEA FILE=HCAPLUS ABB=ON
                                          PLU=ON L401 AND POLYETHER
L404(
              7) SEA FILE=HCAPLUS ABB=ON
                                          PLU=ON L401 AND ADHESION
L405(
              7) SEA FILE=HCAPLUS ABB=ON PLU=ON (L402 OR L403 OR L404)
             91) SEA FILE=REGISTRY ABB=ON PLU=ON
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L406(
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                83512-85-0/BI OR 9000-69-5/BI OR 9004-42-6/BI OR 9004-61-9/BI
                OR 9005-32-7/BI OR 9005-49-6/BI OR 9007-28-7/BI OR 9044-05-7/BI
                 OR 25087-26-7/BI OR 26009-03-0/BI OR 26023-30-3/BI OR
                26100-51-6/BI OR 26124-68-5/BI OR 26876-05-1/BI OR 28728-97-4/B
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I OR 29894-36-8/BI OR 36562-70-6/BI OR 36655-86-4/BI OR
                 50851-57-5/BI OR 9003-01-4/BI OR 9005-37-2/BI OR 9050-30-0/BI
                 OR 101-40-6/BI OR 102-76-1/BI OR 106-69-4/BI OR 107-21-1/BI OR
                 111-29-5/BI OR 114959-05-6/BI OR 139639-23-9/BI OR 14838-15-4/B
                 I OR 15687-27-1/BI OR 22071-15-4/BI OR 25395-31-7/BI OR
                 26446-35-5/BI OR 299-42-3/BI OR 390-28-3/BI OR 50-78-2/BI OR
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                 56-81-5/BI OR 57-55-6/BI OR 7429-90-5/BI OR 7439-89-6/BI OR
                 7439-95-4/BI OR 7439-96-5/BI OR 7440-47-3/BI OR 7440-66-6/BI
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                 BI OR 1320-50-9/BI OR 14066-19-4/BI OR 14127-61-8/BI OR
                 14265-44-2/BI OR 14808-79-8/BI OR 16065-83-1/BI OR 16397-91-4/B
                 I OR 16887-00-6/BI OR 20074-52-6/BI OR 22537-22-0/BI OR
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                 OR 9003-39-8/BI OR 9004-62-0/BI OR 9004-64-2/BI OR 9004-65-3/BI
                  OR 9004-67-5/BI OR 9005-25-8/BI OR 9005-79-2/BI)
              6)SEA FILE=HCAPLUS ABB=ON PLU=ON L405 AND L406 7)SEA FILE=HCAPLUS ABB=ON PLU=ON L405 OR L407
L407(
L408(
              27) SEA FILE=HCAPLUS ABB=ON PLU=ON L396 OR L365 OR L335 OR L303
L409(
                 OR L269
          18081) SEA FILE=HCAPLUS ABB=ON PLU=ON 139639-23-9/RN OR TPA
L410(
              81) SEA FILE=HCAPLUS ABB=ON PLU=ON L410 AND L266
L411 (
              12) SEA FILE=HCAPLUS ABB=ON PLU=ON L411 AND L264
L412(
             24)SEA FILE=HCAPLUS ABB=ON PLU=ON L411 AND (L298 OR L300)
19)SEA FILE=HCAPLUS ABB=ON PLU=ON (L412 OR L413) AND (L296 OR
L413(
L414(
                 L265 OR HEPARIN OR 9005-49-6/RN OR ANTITHROMB? OR ANTI-THROMB?
                 OR ANTI (W) THROMB?)
              17) SEA FILE=HCAPLUS ABB=ON PLU=ON L414 NOT L408
L415(
             13)SEA FILE=HCAPLUS ABB=ON PLU=ON L415 NOT L409
2 SEA FILE=HCAPLUS ABB=ON PLU=ON L416 AND (ALKALI OR CHELAT?
L416(
               OR L257 OR L295) 2 cites
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=> s 1141 or 1171 or 1244 or 1417

17715 MICROSPHERES

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[1421 26 L141 OR L171 OR L244 OR L417 26 cites total for Heaplus
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=> (S-1421 AND (GEL OR HYDROGEL OR (SUSTAINED RELEASE MICROSPHERES)) weeding the
413690 GEL
81606 GELS
445873 GEL
(GEL OR GELS)

11590 HYDROGEL
9520 HYDROGELS
14272 HYDROGEL
(HYDROGEL OR HYDROGELS)
57307 SUSTAINED
387452 RELEASE
19344 RELEASES
398758 RELEASE
(RELEASE OR RELEASES)
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(SUSTAINED (W) RELEASE (W) MICROSPHERES) 15 L421 AND (GEL OR HYDROGEL OR (SUSTAINED RELEASE MICROSPHERES)) GOV MCAPUS 95 SUSTAINED RELEASE MICROSPHERES

=> file wpix FILE 'WPIX') ENTERED AT 17:46:09 ON 28 JAN 2003 COPYRIGHT (C) 2003 THOMSON DERWENT)

24 JAN 2003 <20030124/UP> FILE LAST UPDATED: MOST RECENT DERWENT UPDATE: 200306 <200306/DW> DERWENT WORLD PATENTS INDEX SUBSCRIBER FILE, COVERS 1963 TO DATE

- >>> DUE TO TECHNICAL ISSUES THE SDIS FOR UPDATES 200302-200304 BASED ON ENTRY DATE (ED) MAY CONTAIN DOCUMENTS PREVIOUSLY DISTRIBUTED. IF YOU ENCOUNTER ANY SURPLUS DOCUMENTS OF THIS KIND, PLEASE CONTACT OUR HELPDESKS. UNJUSTIFIED CHARGES INCURRED WILL BE REVOKED OF COURSE. WE APOLOGIZE FOR ANY INCONVENIENCE CAUSED. <<<
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- >>> PATENT IMAGES AVAILABLE FOR PRINT AND DISPLAY <<<
- >>> FOR DETAILS OF THE PATENTS COVERED IN CURRENT UPDATES, SEE http://www.derwent.com/dwpi/updates/dwpicov/index.html <<<
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- >>> FOR INFORMATION ON ALL DERWENT WORLD PATENTS INDEX USER GUIDES, PLEASE VISIT: http://www.derwent.com/userguides/dwpi guide.html <<<

	=> d que	186	
	L77	20350	SEA FILE=WPIX ABB=ON PLU=ON (POLYSACCHARID? OR ?CELLULOS? OR
			?DEXTRAN? OR ?CHITOSAN? OR ?HEPAR!N?) AND (MG OR MN OR CA OR
			BA OR ZN OR MANGANESE OR MAGNESIUM OR CALCIUM OR ZINC)
	L78	37636	SEA FILE=WPIX ABB=ON PLU=ON POLYETHYLENE GLYCOL OR PEG
	L79	1044	SEA FILE=WPIX ABB=ON PLU=ON L77 AND L78
	L81	1044	SEA FILE=WPIX ABB=ON PLU=ON L78 AND L79
	L82	146	SEA FILE=WPIX ABB=ON PLU=ON L81 AND GEL
	L83	117	SEA FILE=WPIX ABB=ON PLU=ON L81 AND (CROSSLINK? OR CROSS(W)LI
			NK? OR CROSS-LINK?)
	L84	30	SEA FILE=WPIX ABB=ON PLU=ON L82 AND L83
	L85	3	SEA FILE=WPIX ABB=ON PLU=ON L84 AND CATION
Í	L86	1	SEA FILE-WPIX ABB-ON PLU-ON L85 AND PARTICLE/TI

=> d que	197	
L77	20350	SEA FILE=WPIX ABB=ON PLU=ON (POLYSACCHARID? OR ?CELLULOS? OR
		?DEXTRAN? OR ?CHITOSAN? OR ?HEPAR!N?) AND (MG OR MN OR CA OR
		BA OR ZN OR MANGANESE OR MAGNESIUM OR CALCIUM OR ZINC)
L78	37636	SEA FILE=WPIX ABB=ON PLU=ON POLYETHYLENE GLYCOL OR PEG
L79	1044	SEA FILE=WPIX ABB=ON PLU=ON L77 AND L78
L89	84	SEA FILE=WPIX ABB=ON PLU=ON L79 AND (?COAGUL? OR ?THROMBO?

B = Biotech, Fooddeter -gents, water treatment DC = Derwent code

OWENS 09/472,110

OR ?PLASMINOGEN? OR FIBRIN?) 13 SEA FILE-WPIX ABB-ON PLU-ON L89 AND (CATION OR CATIONIC OR L90 DIVALENT? OR ALKALINE EARTH) 12 SEA FILE=WPIX ABB=ON PLU=ON L90 AND B/DC 6 SEA FILE=WPIX ABB=ON PLU=ON L91 AND (INORGANIC/TI OR L91 6 citations L97 AMYLOID/TI-OR GEL OR CROSSLINK? OR CROSS(W)LINK? OR CROSS-LINK?

=> s 186 or 197 L423 7 L86 OR L97; 7 cites to tal from WPIX (Derwent) => dup rem 1420 165 1422 1423; removing dup 1: cate citations

FILE 'MEDLINE' ENTERED AT 17:46:50 ON 28 JAN 2003

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PROCESSING COMPLETED FOR L420

PROCESSING COMPLETED FOR L65

PROCESSING COMPLETED FOR L422

PROCESSING COMPLETED FOR_L423

22 DUP REM L420 L65 L422 L423 (3 DUPLICATES REMOVED) 22 c:tahono

dibib abs hitstr 1-22; file home

L424 ANSWER 1 OF 22 HCAPLUS) COPYRIGHT 2003 ACS 2002:408783 HCAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER:

137:2412

TITLE:

Petunia hybrida gene Shooting encoding cytokinin biosynthesis enzyme tRNA-IPT and uses in plant growth

regulation and cosmetic preparations

Meyer, Peter; Zubko, Elena INVENTOR(S): PATENT ASSIGNEE(S): University of Leeds, UK SOURCE: PCT Int. Appl., 56 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT N	10.		KII	ND 	DATE			APPLICATION NO. DATE											
WO 20020			A: A:	_	2002(2002)			WO 2001-GB5175 20011126											
₩:	ΑE,	AG,	AL,	AM,	ΑT,	AU,	AZ,	BA,	BB,	BG,	BR,	BY,	BZ,	CA,	CH,	CN,			
	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	ΕE,	ES,	FI,	GB,	GD,	GE,	GH,			
	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	ΚP,	KR,	ΚZ,	LC,	LK,	LR,			
	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO,	NZ,	OM,	PH,			
	PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	ТJ,	TM,	TR,	TT,	ΤZ,	UA,			
	ŪG,	US,	UZ,	VN,	YU,	ZA,	ZW,	AM,	ΑZ,	BY,	KG,	ΚZ,	MD,	RU,	ТJ,	TM			
RW:	GH,	GM,	KE,	LS,	MW,	MZ,	SD,	SL,	SZ,	ΤZ,	UG,	ZM,	ZW,	AT,	BE,	CH,			
	CY,	DE,	DK,	ES,	FI,	FR,	GB,	GR,	ΙE,	ΙT,	LU,	MC,	NL,	PT,	SE,	TR,			

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BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
                     A5 20020603
    AU 2002023877
                                        AU 2002-23877
                                                            20011126
PRIORITY APPLN. INFO.:
                                        GB 2000-28827
                                                      Α
                                                           20001125
                                       GB 2001-971
                                                        A 20010113
                                        GB 2001-23970
                                                        A 20011005
                                        WO 2001-GB5175
                                                        W 20011126
AB
    The present invention provides a naturally occurring plant gene encoding a
    cytokinin (CK) biosynthesis enzyme. In an activation tagging expt. a
    Petunia hybrida line was identified that showed CK-specific effects
     including control of cellular processes such as plant growth, enhanced
     shooting, reduced apical dominance and delayed senescence and flowering.
    This phenotype correlated with the enhanced expression of a gene we
     labeled Shooting (Sho). The petunia "Shooting" gene, which encodes a
    homolog to Arabidopsis thaliana transfer ribonucleate-
     isopentenyltransferase (tRNA-IPT)-like proteins, also causes CK-specific
    effects when expressed in other plant species. In contrast to the ipt
    gene from Agrobacterium, which primarily increases CK zeatin levels,
     Shooting expression in petunia and tobacco esp. enhances the levels of
     certain N6-(.DELTA.2-isopentenyl) adenosine (2iP) derivs. The present
     invention provides Petunia Shooting gene and protein sequences and uses
     therefor and control thereof in the prodn. of plants and/or plant cells
     that are capable of exhibiting a variety of advantageous characteristics
     assocd. with CK regulated processes. A further aspect of the invention
     there is provided use as a cosmetic to reduce the signs of skin ageing the
    plant ext. which includes a transcriptionally activated/activatable form
    of the Shooting.
    7440-66-6, Zinc, biological studies 7440-70-2, Calcium,
ΙT
    biological studies 9004-61-9, Hyaluronic acid 9007-28-7
     , Chondroitin sulfate 25322-68-3, PEG 75
     RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
        (cosmetic prepn. further comprising; petunia gene Shooting encoding CK
       biosynthesis enzyme tRNA-IPT and plant growth regulation and cosmetic
        prepns.)
RN
     7440-66-6 HCAPLUS
     Zinc (7CI, 8CI, 9CI) (CA INDEX NAME)
CN
Zn
     7440-70-2 HCAPLUS
RN
    Calcium (8CI, 9CI) (CA INDEX NAME)
CN
Ca
     9004-61-9 HCAPLUS
RN
CN
     Hyaluronic acid (8CI, 9CI) (CA INDEX NAME)
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
     9007-28-7 HCAPLUS
RN
CN
    Chondroitin, hydrogen sulfate (9CI) (CA INDEX NAME)
     CM
         9007-27-6
     CRN
     CMF
          Unspecified
     CCI PMS, MAN
```

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

CRN 7664-93-9 CMF H2 O4 S

RN 25322-68-3 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy- (9CI) (CA INDEX NAME)

$$HO - \begin{bmatrix} CH_2 - CH_2 - O \end{bmatrix}_n H$$

L424 ANSWER 2 OF 22 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:275770 HCAPLUS

DOCUMENT NUMBER: 136:299729

TITLE: Biodegradable controlled release microparticles

containing amylopectin-based starch of reduced

molecular weight

INVENTOR(S):
Joensson, Monica; Gustavsson, Nils Ove; Laakso, Timo;

Reslow, Mats

PATENT ASSIGNEE(S): Bioglan AB, Swed.

SOURCE: PCT Int. Appl., 62 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	KIND DATE			PPLI	CATI	ои ис	ο.	DATE				
WO 2002028370	A1	20020411		W	5 20	01-S	E216	4	2001	1005			
W: AE, A	G, AL, AM	, AT, AT,	ΑU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	ΒZ,	CA,	CH,	
CN, C	CR, CU	, CZ, CZ,	DE,	DE,	DK,	DK,	DM,	DZ,	EC,	EE,	EE,	ES,	
FI, F	I, GB, GD	, GE, GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	
KP, K	R, KZ, LC	, LK, LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	
MX, M	z, NO, NZ	, PH, PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SK,	SL,	
TJ, T	1, TR, TT	, TZ, UA,	UG,	US,	UZ,	VN,	YU,	ZA,	ZW,	AM,	AZ,	BY,	
KG, K	Z, MD, RU			•	·		-	•		-	•	•	
RW: GH, G	1, KE, LS	, MW, MZ,	SD,	SL,	SZ,	TZ,	UG,	ZW,	AT,	BE,	CH,	CY,	
		, FR, GB,											
		, CM, GA,										•	
SE 2000003615	A	20020407	-	SE 2000-3615 20001006									
SE 517421													
AU 2001094458		Α	U 20	01-9	4458		2001	1005					
US 2002044976	US 2002044976 A1 20020418							3	2001	1005			
US 2002098203	A1	20020725		U	S 20	02-9	7079	4	2002	0110			

```
PRIORITY APPLN. INFO.:
                                        SE 2000-3615
                                                         A 20001006
                                        US 2001-260455P P
                                                            20010108
                                                        W 20011005
                                        WO 2001-SE2164
AB
     A process for producing parenterally administrable microparticles, in
     which an at least 20% by wt. aq. soln. of purified amylopectin-based
     starch of reduced mol. wt. is prepd., the soln. is combined with a biol.
     active substance, an emulsion of starch droplets is formed in an outer
     phase of polymer soln., the starch droplets are made to gel, and
     the gelled starch particles are dried. A release-controlling shell is
     optionally also applied to the particles. Microparticles which
     essentially consist of the starch, have an amino acid content of <50 .mu.q
     and have no covalent chem. crosslinking. Thus, starch microspheres contq.
     BSA were produced from highly branched starch with av. mol. wt. of 1930
          The starch soln. was mixed with PEG and the mixt. was
    administered s.c. and i.m. to rats. The microspheres were biodegraded
     rapidly within 1 wk, and the tissue is rapidly normalized.
    7440-66-6D, Zinc, human growth hormone complexes 9001-24-5
ΙT
     , Blood coagulation factor V 9001-28-9, Blood coagulation factor
     IX 9001-29-0, Blood coagulation factor X 9001-30-3,
     Blood coagulation factor XII 9013-56-3, Blood coagulation factor
    XIII 25322-68-3, Polyethylene glycol 113189-02-9,
     Blood coagulation factor VIII
     RL: THU (Therapeutic use); BIOL (Biological study);
     USES (Uses)
        (biodegradable controlled release microparticles contg. reduced mol.-wt
        amylopectin-based starch)
     7440-66-6 HCAPLUS
RN
     Zinc (7CI, 8CI, 9CI) (CA INDEX NAME)
CN
Zn
     9001-24-5 HCAPLUS
RN
     Blood-coagulation factor V (8CI, 9CI) (CA INDEX NAME)
CN
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN
     9001-28-9 HCAPLUS
     Blood-coagulation factor IX (9CI) (CA INDEX NAME)
CN
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN
     9001-29-0 HCAPLUS
CN
    Blood-coagulation factor X (9CI)
                                       (CA INDEX NAME)
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
     9001-30-3 HCAPLUS
RN
    Blood-coagulation factor XII (9CI) (CA INDEX NAME)
CN
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
     9013-56-3 HCAPLUS
RN
     Blood-coagulation factor XIII (9CI) (CA INDEX NAME)
CN
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN
     25322-68-3 HCAPLUS
     Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy- (9CI) (CA INDEX
CN
```

RN 113189-02-9 HCAPLUS

CN Blood-coagulation factor VIII, procoagulant (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L424 ANSWER 3 OF 22 HCAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: 2002:213707 HCAPLUS

DOCUMENT NUMBER:

136:252489

TITLE:

Sustained-release polymer blend for pharmaceutical

APPLICATION NO.

DATE

applications

INVENTOR(S):

Guo, Jian Hwa; Skinner, George William

PATENT ASSIGNEE(S):

Hercules Incorporated, USA

SOURCE:

U.S., 9 pp., Cont.-in-part of U.S. 6,210,710.

CODEN: USXXAM

DOCUMENT TYPE:

Patent

LANGUAGE:

English

DATE

KIND

FAMILY ACC. NUM. COUNT: 3

, Polyethylene glycol

USES (Uses)

PATENT INFORMATION:

PATENT NO.

	US 6358525	В1	20020319	US 1999-343425	19990630
	US 6210710	B1	20010403	US 1997-847842	19970428
	NO 9801893	А	19981029	NO 1998-1893	19980427
PRIC	RITY APPLN. INFO.	:		US 1997-847842 A2	19970428
AB	A pharmaceutical	compn	. has a ble	nd of at least first a	and second
				sufficient amt. to be	
				pylcellulose and the	
				ed from the group cons	
				callulose, hydroxyeth	
				thylcellulose, hydropl	
				xymethylhydroxyethylc	
				ified hydroxyethylcel	
				gellan gum, acacia, s	
				inyl monomers, co-poly	
	methacrylate mon	omers,	mono- and	co-polymers of oxyethy	ylene and
	oxypropylene and	mixts	. thereof a	nd a medicament in a s	sufficient amt. to
	be therapeutic,	with t	he proviso	that low-substituted	
	hydroxypropylcel	lulose	is exclude	d from said first and	second components.
				f drugs or nutritional	-
				e medicament for a pro	
				ted into many dosage :	
				n CMC 7L2P 112.5, pher	
				62, povidone 12, reduc	
	Avicel PH-102 96				222 324.42401. 2331
ΙT	9004-64-2, Hydro	_			
T 1	9004-04-2, nyaro	vAbrob	Arcerrarose	3004-07-37	

Methylcellulose 14127-61-8, Calcium ion, biological studies 22537-22-0, Magnesium ion, biological studies 25322-68-3

RL: THU (Therapeutic use); BIOL (Biological study);

(sustained-release polymer blend for pharmaceutical applications)

```
9004-64-2 HCAPLUS
Cellulose, 2-hydroxypropyl ether (9CI) (CA INDEX NAME)
RN
CN
     CM
          1
     CRN
         9004-34-6
     CMF
          Unspecified
     CCI
         PMS, MAN
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
     CM
          2
     CRN 57-55-6
     CMF C3 H8 O2
     OH
_{\rm H3C-CH-CH2-OH}
RN
     9004-67-5 HCAPLUS
     Cellulose, methyl ether (8CI, 9CI) (CA INDEX NAME)
CN
     CM
          1
     CRN 9004-34-6
     CMF Unspecified
     CCI PMS, MAN
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
     CM
          2
     CRN 67-56-1
     CMF C H4 O
нзс-он
     14127-61-8 HCAPLUS
RN
    Calcium, ion (Ca2+) (8CI, 9CI) (CA INDEX NAME)
CN
Ca 2+
RN
     22537-22-0 HCAPLUS
CN
     Magnesium, ion (Mg2+) (8CI, 9CI) (CA INDEX NAME)
Mq 2+
     25322-68-3 HCAPLUS
RN
     Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy- (9CI) (CA INDEX
CN
```

oxides

INVENTOR(S): Cortese, Stephanie M.; Schwartz, Herbert E.; Oppelt,

William G.

PATENT ASSIGNEE(S): Fziomed, Inc., USA SOURCE: PCT Int. Appl., 58 pp.

CODEN: PIXXD2

DOCUMENT TYPE: LANGUAGE:

Patent English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

```
KIND
                                      DATE
                                                          APPLICATION NO.
                                                                                  DATE
      PATENT NO.
                                                        WO 2001-US13520 20010426
      WO 2001082937
                             A1
                                      20011108
            W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
                 CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
            RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
                 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
                 BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
      US 2002010150
                                      20020124
                                                          US 2001-843588
                              A1
                                                                                  20010426
                                                          US 2001-843194
      US 2002028181
                                      20020307
                                                                                  20010426
                               Α1
                                                      US 2000-200457P P 20000428
PRIORITY APPLN. INFO.:
                                                      US 2000-200637P P 20000428
                                                      US 1999-472110
                                                                             A 19991227
```

- The present invention relates to improved methods for making and using AΒ hemostatic, bioadhesive, bioresorbable, anti-adhesion compns. made of intermacromol. complexes of carboxyl-contg. polysaccharides, polyether, polyacids, polyalkylene oxides, and optionally including multivalent cations and/or polycations and/or hemostatic agents. The polymers can be assocd. with each other, and are then either dried into membranes or sponges, or are used as fluids, gels, or foams. Hemostatic, bioresorbable, bioadhesive, anti-adhesion compns. are useful in surgery to prevent bleeding and the formation and reformation of post-surgical adhesions. The compns. are designed to breakdown in-vivo, and thus be removed from the body. The hemostatic, anti-adhesion, bioadhesive, bioresorptive, antithrombogenic and/or phys. properties of such compns. can be varied as needed by carefully adjusting the pH, solids content cation content of the polymer casting solns., polyacid compn., the polyalkylene oxide compn., or by adding hemostatic agents. Hemostatic membranes, gels and/or foams can be used concurrently. Hemostatic, antiadhesion compns. may also be used to lubricate tissues and/or medical instruments, and/or deliver drugs to the surgical site and release them locally. CMC/PEO membranes, esp. the 50/50 CMC/PEO membrane, is highly anti-thrombogenic, based on the redn. in the no. of adherent platelets and the extent of platelet activation on these Thus, increasing the amt. of PEO in membranes increases their antithrombogenic properties.
- TT 7439-95-4, Magnesium, biological studies 7439-96-5, Manganese, biological studies 7440-66-6, Zinc, biological studies 7440-70-2, Calcium, biological studies 9004-32-4, Carboxymethyl cellulose 9004-42-6, Carboxyethyl cellulose 9004-61-9, Hyaluronic acid 9005-32-7, Alginic acid 9005-37-2, Propylene glycol Alginate 9005-49-6, Heparin, biological studies 9007-28-7, Chondroitin sulfate 9044-05-7, Carboxymethyl dextran 9050-30-0, Heparan sulfate 25322-68-3, Polyethylene glycol 83512-85-0,

```
Carboxymethyl chitosan
     RL: THU (Therapeutic use); BIOL (Biological study);
     USES (Uses)
        (hemostatic compns. of polyacids and polyalkylene oxides)
     7439-95-4 HCAPLUS
RN
    Magnesium (8CI, 9CI)
                          (CA INDEX NAME)
CN
Mg
     7439-96-5 HCAPLUS
RN
    Manganese (8CI, 9CI)
                         (CA INDEX NAME)
CN
Mn
     7440-66-6 HCAPLUS
RN
     Zinc (7CI, 8CI, 9CI) (CA INDEX NAME)
CN
Zn
     7440-70-2 HCAPLUS
RN
     Calcium (8CI, 9CI) (CA INDEX NAME)
CN
Ca
     9004-32-4 HCAPLUS
RN
    Cellulose, carboxymethyl ether, sodium salt (8CI, 9CI) (CA INDEX NAME)
CN
    CM
         1
         9004-34-6
    CRN
         Unspecified
    CMF
         PMS, MAN
    CCI
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
    CM
         2
    CRN 79-14-1
    CMF C2 H4 O3
   Q
HO-C-CH2-OH
RN
     9004-42-6 HCAPLUS
CN
     Cellulose, 2-carboxyethyl ether (9CI) (CA INDEX NAME)
     CM
         1
     CRN 9004-34-6
```

```
CMF Unspecified
    CCI PMS, MAN
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
         2
    CM
    CRN 503-66-2
    CMF C3 H6 O3
HO-CH2-CH2-CO2H
    9004-61-9 HCAPLUS
RN
    Hyaluronic acid (8CI, 9CI) (CA INDEX NAME)
CN
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
    9005-32-7 HCAPLUS
RN
    Alginic acid (8CI, 9CI) (CA INDEX NAME)
CN
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
    9005-37-2 HCAPLUS
RN
    Alginic acid, ester with 1,2-propanediol (8CI, 9CI) (CA INDEX NAME)
CN
    CM
         1
    CRN 9005-32-7
    CMF
         Unspecified
    CCI PMS, MAN
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
    CM
         2
    CRN 57-55-6
    CMF C3 H8 O2
    ОН
H_3C-CH-CH_2-OH
    9005-49-6 HCAPLUS
RN
    Heparin (8CI, 9CI) (CA INDEX NAME)
CN
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
    9007-28-7 HCAPLUS
RN
    Chondroitin, hydrogen sulfate (9CI) (CA INDEX NAME)
CN
    CM
         1
    CRN 9007-27-6
         Unspecified
    CMF
    CCI PMS, MAN
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
    CM
         2
```

CRN 7664-93-9 CMF H2 O4 S

RN 9044-05-7 HCAPLUS

CN Dextran, carboxymethyl ether (9CI) (CA INDEX NAME)

CM 1

CRN 9004-54-0

CMF Unspecified

CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

CRN 79-14-1

CMF C2 H4 O3

RN 9050-30-0 HCAPLUS

CN Heparan, sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 70226-44-7

CMF Unspecified

CCI MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

CRN 7664-93-9

CMF H2 O4 S

RN 25322-68-3 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy- (9CI) (CA INDEX

NAME)

```
— CH<sub>2</sub>— CH<sub>2</sub>— О——— Н
```

83512-85-0 HCAPLUS RN

CN Chitosan, N-(carboxymethyl) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L424 ANSWER 6 OF 22 HCAPLUS COPYRIGHT 2003 ACS DUPLICATE 2

2001:816395 HCAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 135:362559

TITLE: Polyacid/polyalkylene oxide foams and gels

for drug delivery

Miller, Mark E.; Cortese, Stephanie M.; Schwartz, INVENTOR(S):

Herbert E.; Oppelt, William G.

Fziomed, Inc., USA PCT Int. Appl., 57 pp. PATENT ASSIGNEE(S):

SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

	PATENT NO.					D	D DATE				APP	LIC	CATIO). -	DATE				
					A2 20011108 A3 20020221					WO	200	01-US)5	20010426					
		W: AE, AG,							AZ,	BA	, в	B,	BG,	BR,	BY,	BZ,	CA,	CH,	CN,
			CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EE	, E	s,	FI,	GB,	GD,	GE,	GH,	GM,	HU,
			ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	ΚP	, K	R,	ΚZ,	LC,	LK,	LR,	LS,	LT,	LU,
			LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX	, M	Z,	NO,	ΝZ,	PL,	PT,	RO,	RU,	SD,
		SE, SG, ZW, AM,		SG,	SI,	SK,	SL,	ТJ,	TM,	TR	, T	Τ,	TZ,	UA,	UG,	UZ,	VN,	YU,	ZA,
				AM,	AZ,	BY,	KG,	ΚZ,	MD,	RU	, T	J,	TM						
		RW:	GH,	GM,	ΚE,	LS,	MW,	ΜZ,	SD,	SL	, s	Z,	TZ,	ÜG,	ZW,	ΑT,	BE,	CH,	CY,
			DE,	DK,	ES,	FI,	FR,	GB,	GR,	ΙE	, I	Τ,	LU,	MC,	NL,	PT,	SE,	TR,	BF,
			ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GW	, M	ΙL,	MR,	NE,	SN,	TD,	TG		
	ΑU	20010	0591	77	A!	5	2001	1112		AU 2001-59177						20010426			
	US	20020	0101	50	A.	1	2002	0124			US	200	01-84	13588	3	20010426			
	US	20020	0281	81	A:	1	2002	0307			US	200	01-84	13194	4	20010426			
PRIO	RITY	Y APPLN. INFO.:								US	200	0-2	2004	57 P	Р	20000	0428		
										US	200	0-2	2006:	37P	P	2000	0428		
										US 1999-472110 A 19991227									
										WO	200	1-0	JS13	505	W	2001	0426		

AB The present invention relates to improved methods for delivering bioadhesive, bioresorbable, anti-adhesion compns. Antiadhesion compns. can be made of intermacromol. complexes of carboxyl-contg. polysaccharides, polyethers, polyacids, polyalkylene oxides, multivalent cations and/or polycations. The polymers are assocd. with each other, and are then used as fluids, gels or foams. By providing a product bag, the compns. can be delivered as gels or as sprays. By dissolving propellant gases in the compns., the materials can be delivered as foams, which have decreased d., and therefore can adhere to surfaces that previously have been difficult to coat with antiadhesion gels

```
Delivery systems can also provide mechanisms for expelling more
product, and for directing the flow of materials leaving the delivery
system. Bioresorbable, bioadhesive, anti-adhesion, and/or hemostatic
compns. are useful in surgery to prevent the formation and reformation of
post-surgical adhesions. The biol. and phys. properties of such compns.
can be varied as needed by carefully adjusting the pH and/or cation
content of the polymer casting solns., polyacid compn., the polyalkylene
oxide compn., or by selecting the solids content of the compn.
Antiadhesion compns. may also be used to lubricate tissues and/or medical
instruments, and/or deliver drugs to the surgical site and release them
locally. An antiadhesion compn. comprising a gel was loaded
into a CCL ABS canister with a liner. The compn. comprised 2.2% total solids with a ratio of CMC to {\tt PEG} of 97.5:2.5, and included
sufficient Ca to provide a 60% ionically assocd. complex. Portions of the
compn. were sterilized in an autoclave at a temp. of 122.degree. for 35
min.
7439-95-4, Magnesium, biological studies 7439-96-5,
Manganese, biological studies 7440-66-6, Zinc, biological
studies 7440-70-2, Calcium, biological studies 9004-32-4
 Carboxymethyl cellulose 9004-42-6, Carboxyethyl cellulose
9004-61-9, Hyaluronic acid 9005-32-7, Alginic acid
9005-37-2, Propylene glycol Alginate 9005-49-6, Heparin,
biological studies 9007-28-7, Chondroitin sulfate
9044-05-7, Carboxymethyl dextran 9050-30-0, Heparan
sulfate 25322-68-3, Polyethylene glycol 83512-85-0,
Carboxymethyl chitosan
RL: THU (Therapeutic use); BIOL (Biological study);
USES (Uses)
   (polyacid/polyalkylene oxide foams and gels for drug
   delivery)
7439-95-4 HCAPLUS
Magnesium (8CI, 9CI)
                      (CA INDEX NAME)
7439-96-5 HCAPLUS
Manganese (8CI, 9CI) (CA INDEX NAME)
7440-66-6 HCAPLUS
Zinc (7CI, 8CI, 9CI) (CA INDEX NAME)
7440-70-2 HCAPLUS
Calcium (8CI, 9CI)
                   (CA INDEX NAME)
9004-32-4 HCAPLUS
Cellulose, carboxymethyl ether, sodium salt (8CI, 9CI)
                                                          (CA INDEX NAME)
```

IT

RN

CN

Mg

RN

CN

Mn

RN

CN

Zn

RN

CN

Ca

RN

CN

```
CM
         1
    CRN 9004-34-6
    CMF
         Unspecified
    CCI PMS, MAN
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
         2
    CM
    CRN 79-14-1
    CMF C2 H4 O3
но-с-сн2-он
    9004-42-6 HCAPLUS
RN
    Cellulose, 2-carboxyethyl ether (9CI) (CA INDEX NAME)
CN
    CM
         1
    CRN 9004-34-6
    CMF Unspecified
    CCI PMS, MAN
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
    CM
         2
    CRN 503-66-2
    CMF C3 H6 O3
HO-CH2-CH2-CO2H
    9004-61-9 HCAPLUS
CN
   Hyaluronic acid (8CI, 9CI) (CA INDEX NAME)
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
    9005-32-7 HCAPLUS
   Alginic acid (8CI, 9CI) (CA INDEX NAME)
CN
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
    9005-37-2 HCAPLUS
   Alginic acid, ester with 1,2-propanediol (8CI, 9CI) (CA INDEX NAME)
CN
    CM
         1
    CRN 9005-32-7
    CMF Unspecified
    CCI PMS, MAN
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
         2
    CM
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9005-49-6 HCAPLUS RN

Heparin (8CI, 9CI) (CA INDEX NAME) CN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

9007-28-7 HCAPLUS RN

Chondroitin, hydrogen sulfate (9CI) (CA INDEX NAME) CN

CM 1

CRN 9007-27-6 CMF Unspecified

CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

2 CM

CRN 7664-93-9 CMF H2 O4 S

9044-05-7 HCAPLUS RN

Dextran, carboxymethyl ether (9CI) (CA INDEX NAME) CN

CM 1

CRN 9004-54-0

CMF Unspecified

CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

CRN 79-14-1

CMF C2 H4 O3

HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT,

```
LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,
              SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
          RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
     US 6458387
                         В1
                               20021001
                                               US 1999-420361
                                                                   19991018
                               20020724
                                               EP 2000-973477
                                                                   20001012
     EP 1223917
                         A1
              AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
              IE, SI, LT, LV, FI, RO, MK, CY, AL
                                            US 1999-420361
                                                               A 19991018
PRIORITY APPLN. INFO.:
                                            WO 2000-US28200 W 20001012
     A microsphere compn. for sustained release of therapeutic or diagnostic
AΒ
     agents comprises (1) a carrier protein, (2) a water-sol. polymer, (3) a
     polyanionic polysaccharide as a first complexing agent, and (4) a divalent metal cation (Ca and Mg) as a second complexing agent. The microspheres
     have a smooth surface that includes a plurality of channel openings that
     are < 1000 .ANG. in diam. Various drugs were encapsulated into
     microspheres. For example, microspheres contg. leuprolide acetate were
     prepd. using human serum albumin (HSA), dextran sulfate, polyethylene
     glycol, and polyvinylpyrrolidone. The microspheres were composed of
     approx. 10% leuprolide acetate, 50% human serum albumin, 20% dextran
     sulfate and 20% polyethylene glycol/polyvinylpyrrolidone. Similar
     particles were prepd. which also included zinc sulfate or caprylic acid,
     both of which retarded the release of protein and peptide from the
     microspheres. Also, rifampicin-contg. HSA microspheres were prepd. with
     HSA incorporation of 74% and rifampicin incorporation into the particles
     of > 6.8\%. The av. size of the particles was detd. to be 68 nm in diam.
ΙT
     685-73-4, Galacturonic acid 7439-95-4, Magnesium,
     biological studies 7440-70-2, Calcium, biological studies
     9004-32-4, Carboxymethyl cellulose 9004-61-9, Hyaluronic
     acid 9004-67-5, Methyl cellulose 9005-32-7, Alginic
     acid 9005-49-6, Heparin, biological studies
     9007-28-7, Chondroitin sulfate 9050-30-0, Heparan
     sulfate 25322-68-3, Polyethylene oxide 139639-23-9,
     Tissue plasminogen activator
     RL: THU (Therapeutic use); BIOL (Biological study);
     USES (Uses)
         (sustained-release microspheres based on
         carrier protein, water sol. polymer and complexing agents)
RN
     685-73-4 HCAPLUS
CN
     D-Galacturonic acid (9CI) (CA INDEX NAME)
```

Absolute stereochemistry.

RN 7439-95-4 HCAPLUS CN Magnesium (8CI, 9CI) (CA INDEX NAME)

Mg

```
7440-70-2 HCAPLUS
RN
CN
    Calcium (8CI, 9CI) (CA INDEX NAME)
Ca
    9004-32-4 HCAPLUS
RN
CN
    Cellulose, carboxymethyl ether, sodium salt (8CI, 9CI) (CA INDEX NAME)
    CM
    CRN 9004-34-6
    CMF
        Unspecified
    CCI PMS, MAN
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
         2
    CM
    CRN 79-14-1
    CMF C2 H4 O3
   0
но-с-сн2-он
    9004-61-9 HCAPLUS
RN
CN Hyaluronic acid (8CI, 9CI) (CA INDEX NAME)
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
    9004-67-5 HCAPLUS
RN
    Cellulose, methyl ether (8CI, 9CI) (CA INDEX NAME)
CN
    CM
         1
    CRN 9004-34-6
    CMF Unspecified
    CCI PMS, MAN
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
    CM
         2
    CRN 67-56-1
    CMF C H4 O
нзс-он
    9005-32-7 HCAPLUS
RN
    Alginic acid (8CI, 9CI) (CA INDEX NAME)
CN
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
    9005-49-6 HCAPLUS
RN
    Heparin (8CI, 9CI) (CA INDEX NAME)
CN
```

```
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN
    9007-28-7 HCAPLUS
    Chondroitin, hydrogen sulfate (9CI) (CA INDEX NAME)
CN
    CM
         1
    CRN
         9007-27-6
         Unspecified
    CMF
    CCI PMS, MAN
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
         2
    CM
    CRN 7664-93-9
    CMF H2 O4 S
    9050-30-0 HCAPLUS
RN
    Heparan, sulfate (9CI) (CA INDEX NAME)
CN
    CM
          1
         70226-44-7
    CRN
         Unspecified
    CMF
    CCI
         MAN
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
    CM ·
         2
    CRN 7664-93-9
    CMF H2 O4 S
    25322-68-3 HCAPLUS
RN
CN
    Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy- (9CI) (CA INDEX
       - СН2- СН2- О
```

```
139639-23-9 HCAPLUS
RN
     Plasminogen activator, tissue-type (9CI) (CA INDEX NAME)
CN
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
                               THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS
REFERENCE COUNT:
                         4
                               RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
L424 ANSWER 8 OF 22 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER:
                         2001:886568 HCAPLUS
DOCUMENT NUMBER:
                         136:42803
TITLE:
                         Conjugate addition reactions for the controlled
                         delivery of pharmaceutically active compounds
INVENTOR(S):
                         Hubbel, Jeffrey A.; Elbert, Donald; Schoenmakers,
                         Ronald
                         Eidgenossische Technische Hochschule Zurich, Switz.;
PATENT ASSIGNEE(S):
                         Universitat Zurich
                         PCT Int. Appl., 221 pp.
SOURCE:
                         CODEN: PIXXD2
DOCUMENT TYPE:
                         Patent
LANGUAGE:
                         English
FAMILY ACC. NUM. COUNT:
                         1
PATENT INFORMATION:
     PATENT NO.
                     KIND DATE
                                           APPLICATION NO.
                                                            DATE
                                           -----
    WO 2001092584
                            20011206
                                          WO 2001-US18101 20010604
                     A1
        W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT,
             RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US,
             UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
             DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
           BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
PRIORITY APPLN. INFO.:
                                        US 2000-586937
                                                       A2 20000602
                        MARPAT 136:42803
OTHER SOURCE(S):
AB
     The invention features polymeric biomaterials formed by nucleophilic addn.
     reactions to conjugated unsatd. groups. These biomaterials may be used
     for medical treatments.
     7440-66-6, Zinc, biological studies 9005-49-6, Heparin,
IT
    biological studies
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (-binding agents; conjugate addn. reactions for the controlled delivery
        of pharmaceutically active compds.)
     7440-66-6 HCAPLUS
RN
CN
     Zinc (7CI, 8CI, 9CI) (CA INDEX NAME)
Zn
RN
     9005-49-6 HCAPLUS
CN
     Heparin (8CI, 9CI) (CA INDEX NAME)
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
     25322-68-3, Polyethylene glycol
     RL: DEV (Device component use); THU (Therapeutic use); BIOL
     (Biological study); USES (Uses)
        (conjugate addn. reactions for the controlled delivery of
```

RN 9050-30-0 HCAPLUS

CN Heparan, sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 70226-44-7 CMF Unspecified

CCI MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

CRN 7664-93-9 CMF H2 O4 S

RN 25322-68-3 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy- (9CI) (CA INDEX NAME)

RN 83512-85-0 HCAPLUS

CN Chitosan, N-(carboxymethyl) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L424 ANSWER 7 OF 22 HCAPLUS COPYRIGHT 2003 ACS DUPLICATE 3

ACCESSION NUMBER: 2001:300486 HCAPLUS

DOCUMENT NUMBER: 134:331616

TITLE: Sustained release

microspheres based on a carrier protein, a water soluble polymer and complexing agents

INVENTOR(S): Scott, Terrence L.; Brown, Larry R.; Riske, Frank J.;

Blizzard, Charles D.; Rashba-Step, Julia

PATENT ASSIGNEE(S): Epic Therapeutics, Inc., USA

SOURCE: PCT Int. Appl., 71 pp. CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE
WO 2001028524 A1 20010426 WO 2000-US28200 20001012

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,

$$HO \longrightarrow CH_2 - CH_2 - O \longrightarrow n$$

REFERENCE COUNT:

7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L424 ANSWER 4 OF 22 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V.

ACCESSION NUMBER:

2002203779 EMBASE

TITLE:

Delivery of LMW heparin via surface coated

chitosan/peg-alginate microspheres

prevents thrombosis.

AUTHOR:

Chandy T.; Rao G.H.R.; Wilson R.F.; Das G.S.

CORPORATE SOURCE:

T. Chandy, Departments of Cardiology, University of Minnesota, Mayo Mail Code 508, 420 Delaware St. SE,

Minneapolis, MN 55455, United States. chand025@tc.umn.edu

SOURCE:

Drug Delivery: Journal of Delivery and Targeting of

Therapeutic Agents, (2002) 9/2 (87-96).

Refs: 34

ISSN: 1071-7544 CODEN: DDELEB

COUNTRY:

United States

DOCUMENT TYPE:

Journal; Article

FILE SEGMENT:

018 Cardiovascular Diseases and Cardiovascular Surgery

030 Pharmacology

037 Drug Literature Index

039 Pharmacy

LANGUAGE:

English English

SUMMARY LANGUAGE:

Heparin remains the gold-standard inhibitor of the process involved in the vascular response to injury. Continued anticoagulation is achieved by subcutaneous administration of low-molecular-weight heparin (LMW Hep) or with an orally active anticoagulant such as warfarin. An oral heparin would avoid the inconvenience of subcutaneous injections and adverse events associated with warfarin. A mild chitosan/PEG/calcium alginate microencapsulation process, as applied to encapsulation of biological macromolecules such as heparin and LMW Hep was investigated. Heparin and LMW Hep entrapped alginate beads were further surface/enteric coated with chitosan and cellulose acetate phthalate (CAP) via carbodiimide (EDC) functionalities. It was observed that approximately 70% of the content is being released into Tris-HCI buffer, pH 7.4 within the initial 6 hours and no significant release of LMW Hep was observed from enteric coated

no significant release of LMW Hep was observed from enteric coated microspheres (12%) during treatment with 0.1 M HCI, pH 1.0 for 4 hours. But acid treated capsules had released almost all the entrapped LMW Hep into Tris-HCI, pH 7.4 media within 6 hours. From scanning electron microscopic and swelling studies, it appeared that the surface coatings (via chitosan and CAP) had modified the alginate microspheres and subsequently the drug release. The released heparin and LMW Hep had shown their anticoagulant functions. These results established the feasibility of modifying the formulation in order to obtain the desired controlled release of bioactive agent (LMW Hep), for a convenient pH dependent delivery system.

L424 ANSWER 5 OF 22 HCAPLUS COPYRIGHT 2003 ACS

2001:816464 HCAPLUS

ACCESSION NUMBER: DOCUMENT NUMBER:

135:362573

TITLE:

. Hemostatic compositions of polyacids and polyalkylene

DUPLICATE 1

pharmaceutically active compds.)

RN 25322-68-3 HCAPLUS

Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy- (9CI) (CA INDEX CN

$$HO = \begin{bmatrix} CH_2 - CH_2 - O \end{bmatrix}_n H$$

REFERENCE COUNT:

THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L424 ANSWER 9 OF 22 HCAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: 2001:265231 HCAPLUS

1

DOCUMENT NUMBER:

134:285589

TITLE:

Gel-forming compositions containing polysaccharides and alkyl sulfate salts

Browne, L. Daniel; Dake, Michael D.; Waugh, Jacob INVENTOR(S):

PATENT ASSIGNEE(S): Essentia Biosystems, Inc., USA

SOURCE:

PCT Int. Appl., 66 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PA'	PATENT NO.					D DATE			A	PPLI	CATI	N NC	ο.	DATE				
· · · -			_			20010412			W	20	00-U	2000	0001002					
WO	2001	0247	75	C2 200			0021205											
	W: AE, AG,			AL,	AM,	AT,	ΑU,	ΑZ,	BA,	BB,	BG,	BR,	ΒY,	ΒZ,	CA,	CH,	CN,	
		CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EE,	ES,	FΙ,	GB,	GD,	GE,	GH,	GM,	HR,	
		HU,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	KP,	KR,	ΚZ,	LC,	LK,	LR,	LS,	LT,	
	LU, LV			MA,	MD,	MG,	MK,	MN,	MW,	MX,	ΜZ,	NO,	NZ,	PL,	PT,	RO,	RU,	
	SD, SE,			SG,	SI,	SK,	SL,	ТJ,	TM,	TR,	TT,	ΤZ,	UA,	ŪG,	US,	UZ,	VN,	
		YU,	ZA,	ZW,	AM,	ΑZ,	BY,	KG,	ΚZ,	MD,	RU,	ТJ,	TM					
	RW:	GH,	GM,	ΚE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZW,	AT,	BE,	CH,	CY,	
		DE,	DK,	ES,	FI,	FR,	GB,	GR,	ΙE,	IT,	LU,	MC,	NL,	PT,	SE,	BF,	ВJ,	
		CF,	CG,	CI,	CM,	GΑ,	GN,	GW,	ML,	MR,	NE,	SN,	TD,	TG				
AU	AU 2001010728 A5								A	U 20	01-1	0728		2000	1002			
PRIORIT	PRIORITY APPLN. INFO.:							US 1999-157365P				65P	P	19991001				
									US 2000-675566 A 20000929									
								1	WO 2	000-	US27	186	W	2000	1002			

AB Aq. gel-forming compns. contain a biocompatible hydroxyalkyl or carboxyalkyl polysaccharide deriv., an alkali metal alkyl sulfate having 6-20 C atoms, a therapeutic or diagnostic agent, and optionally, a biocompatible inorg. salt. The gel-forming compns. show an increase in viscosity upon application of shear (i.e., shear-thickening) sufficient to form a gel. The resulting gel typically relaxes over time returning to a low viscosity compn. in the absence of shear. The disclosed gel-forming compns. are useful for administering a therapeutic or diagnostic agent to a patient in need of treatment or diagnosis; and for biomedical interventional procedures, such as catheter-based vascular embolization, angiogenesis, or other tissue specific applications. A stock soln. of hydroxypropyl cellulose was prepd. by adding Klucel HFNF (hydroxypropyl cellulose) to 200 mL normal saline. Similarly, a stock soln. of PEG was prepd. by dissolving PEG in normal saline and

```
stirring for 15 min as above prior to use in the gel-forming
     compn. A soln. of sodium dodecyl sulfate in water was prepd. and the 3
     solns. were mixed and added to fluorescein isothiocyanate and the mixt.
     formed a gel. The viscosity of the gel was 3,000,000
     9004-32-4, Carboxymethyl cellulose sodium salt 9004-64-2
ΙT
     , Hydroxypropyl cellulose 9005-49-6, Heparin,
     biological studies 139639-23-9, Tissue plasminogen activator
     RL: THU (Therapeutic use); BIOL (Biological study);
     USES (Uses)
        (gel-forming compns. contain polysaccharides and alkyl
        sulfate salts)
     9004-32-4 HCAPLUS
RN
CN
     Cellulose, carboxymethyl ether, sodium salt (8CI, 9CI) (CA INDEX NAME)
          1
     CM
     CRN
          9004-34-6
     CMF
          Unspecified
     CCI
          PMS, MAN
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
     CM
          2
     CRN 79-14-1
     CMF C2 H4 O3
   0
но-с-сн2-он
     9004-64-2 HCAPLUS
RN
CN
    Cellulose, 2-hydroxypropyl ether (9CI) (CA INDEX NAME)
     CM
          1
          9004-34-6
     CRN
     CMF
          Unspecified
     CCI
         PMS, MAN
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
     CM
          2
     CRN 57-55-6
     CMF C3 H8 O2
    OH
_{\rm H3C}-_{\rm CH}-_{\rm CH2}-_{\rm OH}
     9005-49-6 HCAPLUS
RN
     Heparin (8CI, 9CI) (CA INDEX NAME)
CN
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
```

EP 1200134 A1 EP 1999-935897 19990722 WO 1999-US16804 19990722

FILING DETAILS:

PATENT NO PATENT NO KIND ______ AU 9951275 A Based on WO 200105438 EP 1200134 A1 Based on WO 200105438

PRIORITY APPLN. INFO: US 1999-356178 19990716

2001-123203 [13] WPIX

WO 200105438 A UPAB: 20020130 AB

NOVELTY - A targeted ultrasound contrast agent comprising a carrier and a particle (I) is new.

DETAILED DESCRIPTION - A Targeted ultrasound contrast agent comprising a carrier and a particle of formula (I) is new.

P = porous particle of an inorganic material with an average particle diameter of 0.05-500 microns and containing an entrapped gas or liquid;

L = absent or is a linker; and

T = targeting ligand.

An INDEPENDENT CLAIM is included for a method of ultrasound imaging in a mammal involving administration of a targeted ultrasound contrast agent comprising a carrier and a particle of formula (I) which alters the ultrasound echogenicity of the target to be imaged.

USE - The targeted contrast agents are useful for ultrasound imaging in diagnostic procedures e.g. for oncologic, gastrointestinal and cardiovascular uses e.g. in the detection and diagnosis of ischemia.

ADVANTAGE - The inorganic particles of the invention have good mechanical stability and rigidity, which are important attributes lacking in other materials used as ultrasound contrast agents such as sonicated albumin microspheres and perfluorocarbon emulsions. They can readily be prepared and-fabricated into a variety of shapes and sizes and extents of porosity, in order to obtain the most desirable contrast effects. Also, inorganic porous particles can be prepared with a range of different solubilities in an aqueous solution, such as body fluid. Dwg.0/0

L424 ANSWER 12 OF 22 WPIX (C) 2003 THOMSON DERWENT

ACCESSION NUMBER: 2001-112499 [12]

2001-091751 [10] CROSS REFERENCE: DOC. NO. CPI: C2001-033517

TITLE:

Method for controlling the flux of penetrants across an

adaptable semi-permeable barrier is useful for

administering an agent to a mammalian body or a plant and for generating an immune response by vaccinating the

DERWENT CLASS: A18 A28 A96 B05 B07 D16 D22

CEVC, G; RICHARDSEN, H; WEILAND-WAIBEL, A; INVENTOR(S):

> WEILAND-WEIBEL, A (IDEA-N) IDEA AG

PATENT ASSIGNEE(S): COUNTRY COUNT:

95

PATENT INFORMATION:

PATENT NO KIND DATE WEEK

WO 2001001963 A1 20010111 (200112)* EN 110

RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ

NL OA PT SD SE SL SZ TZ UG ZW

W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM

DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

AU 2000061557 A 20010122 (200125)

BR 2000012178 A 20020312 (200226)

EP 1189598 A1 20020327 (200229) EN

R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI

CZ 2002000038 A3 20020515 (200241)

CN 1359288 A 20020717 (200268)

APPLICATION DETAILS:

PATENT NO K	IND	API	PLICATION	DATE
WO 2001001963	A1	WO	2000-EP6367	20000705
AU 2000061557	'A	ΑŲ	2000-61557	20000705
BR 2000012178	'A	BR	2000-12178	20000705
		WO	2000-EP6367	20000705
EP 1189598	A1	ΕP	2000-947939	20000705
	~	WO	2000-EP6367	20000705
CZ 2002000038	A3	WO	2000-EP6367	20000705
		CZ	2002-38	20000705
CN 1359288	A	CN	2000-809916	20000705

FILING DETAILS:

PAT	ENT NO	KIND			PAT	TENT NO
AU	200006155	7 A	Based	on	WO	200101963
BR	200001217	8/ A	Based	on	WO	200101963
EΡ	1189598	' A1	Based	on	WO	200101963
CZ	200200003	8 A3	Based	on	WO	200101963

PRIORITY APPLN. INFO: WO 1999-EP4659 19990705

AN 2001-112499 [12] WPIX

CR 2001-091751 [10]

AB WO 200101963 A UPAB: 20021022

NOVELTY - A method for controlling the flux of penetrants across an adaptable semi-permeable porous barrier is new.

1

DETAILED DESCRIPTION - A method for controlling the flux of penetrants across an adaptable semi-permeable membrane comprises suspending the penetrants in a polar liquid in the form of fluid droplets surrounds by a membrane-like coating comprising at least two kinds of amphiphilic substances with a tendency to aggregate, selecting a dose of the penetrants to control the flux of the penetrants across the barrier and applying the selected dose of the formulation onto the area of the barrier. The amphiphilic substances differ by a factor of at least 10 in solubility in the polar liquid and the homo-aggregates of the more soluble substance and hetero-aggregates have a preferred average diameter smaller than the diameter of the homo-aggregates of the less soluble substance. The more soluble substance tends to solubilize the droplet and comprises up to 99% of the solubilizing concentration or saturating concentration in the unstabilized droplet. The presence of the more soluble substance lowers the average elastic energy of the coating by at least 5 times preferably more than 10 times the average elastic energy of red blood cells or of phospholipid bilayers with fluid aliphatic chains. The penetrants are able to transport agents through the pores of the barrier or enable agent permeation through the pores after the penetrants have entered the pores.

or more bilayer-forming diacyl membrane lipids. The compns. are characterized by the presence of an effective amt. of the monoacyl component and a lipophilic component dissolved or dispersed in a hydrophilic medium in an amt. effective to convert the compn. into a liq., gel or semi-solid which has the property of yielding dispersed lipid aggregates upon contact or further diln. with an aq. medium. Particular liq. pharmaceutical compns. comprise: (a) a mixt. of membrane lipids which comprises a micelle-forming lipid and preferably a bilayer-forming lipid; (b) a lipophilic component; (c) at least one hydrophilic medium to mobilize the lipids; and optionally (d) a biol. active compd. Other compns. comprise water in an amt. which is effective to hydrate the lipid mixt., and a biol. active compd. Enzyme modified lecithin 40, Miglyol 810 10, vitamin A propionate 5 parts were dissolved in ethanol 20, propylene glycol 10, and water 5. The compn. was heated and dild. to obtain a clear yellow dispersion of microscopic lipid aggregates.

IT 9005-49-6, Heparin, biological studies 25322-68-3,

Polyethylene glycol

RL: THU (Therapeutic use); BIOL (Biological study);

USES (Uses)

(drug carriers contg. micelle-forming membrane lipids and

bilayer-forming lipids and other ingredients)

RN 9005-49-6 HCAPLUS

CN Heparin (8CI, 9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 25322-68-3 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy- (9CI) (CA INDEX NAME)

$$HO - CH_2 - CH_2 - O - H$$

IT 7440-70-2, Calcium, biological studies

RL: BSU (Biological study, unclassified); BIOL (Biological study) (regulating agents for; drug carriers contg. micelle-forming membrane lipids and bilayer-forming lipids and other ingredients)

RN 7440-70-2 HCAPLUS

CN Calcium (8CI, 9CI) (CA INDEX NAME)

Ca

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L424 ANSWER 14 OF 22 HCAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: 2000:725477 HCAPLUS

DOCUMENT NUMBER: 133:286502

TITLE: Compositions of polyacids and polyethers and methods

for their use in reducing adhesions

INVENTOR(S): Schwartz, Herbert E.; Blackmore, John M.; Cortese,

Stephanie M.; Oppelt, William G.

PATENT ASSIGNEE(S): Fziomed, Inc., USA SOURCE: PCT Int. Appl., 189 pp.

CODEN: PIXXD2

INDEPENDENT CLAIMS are included for:

- (i) a kit containing the formulation;
- (ii) a patch containing the formulation; and

(iii) a method of administering an agent to a mammalian body or plant comprising the novel method.

USE - The method is useful for administering an agent to a mammalian body or a plant, for generating an immune response by vaccinating the mammal and for treating inflammatory disease, dermatosis, kidney or liver failure, adrenal insufficiency, aspiration syndrome, Behcet syndrome, bites and stings, blood disorders (cold-hemagglutinin disease), hemolytic anaemia, hypereosinophilic, hypoplastic anaemia, macroglobulinaemia and thrombocytopenic purpura), bone disorders, cerebral oedema, Cogan's syndrome, congenital adrenal hyperplasia, connective tissue disorders (lichen, lupus erythematosus, polymyalgia rheumatica, polymyositis and dermatomyositis), epilepsy, eye disorders (cataracts), Graves' ophthalmopathy, hemangioma, herpes infections, neuropathies, retinal vasculitis, scleritis, gastro-intestinal disorders (inflammatory bowel disease, nausea and oesophageal damage), hypercalcaemia, infections, Kawasaki disease, myasthenia gravis, pain syndromes, polyneuropathies, pancreatitis, respiratory disorders (asthma), rheumatoid disease, osteoarthritis, rhinitis, sarcoidosis, skin diseases, alopecia, eczema, erythema multiforme, lichen, pemphigus and pemphigoid, psoriasis, pyoderma gangrenosum, urticaria and thyroid and vascular disorders.

ADVANTAGE - Increasing the applied dose above a threshold level affects both the drug/penetrant distribution and also determines the rate of penetrant transport across the barrier.

Dwg.0/14

L424 ANSWER 13 OF 22 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2000:741894 HCAPLUS

DOCUMENT NUMBER: 133:313641

TITLE: Lipid aggregate-forming compositions and their uses

INVENTOR(S): Leigh, Steven; Leigh, Mathew Louis Steven

PATENT ASSIGNEE(S): Phares Pharmaceuticals Research N.V., Neth. Antilles

SOURCE: PCT Int. Appl., 40 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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PATENT NO.
                     KIND DATE
                                          APPLICATION NO. DATE
                                          WO 2000-GB1361
                                                           20000411
    WO 2000061113
                     A1
                           20001019
        W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR,
            CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU,
            ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU,
            LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE,
            SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA,
            ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
        RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,
             DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
            CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
                                                          20000411
                                         EP 2000-919049
                           20020109
                      Αl
            AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO
                                                        A 19990412
PRIORITY APPLN. INFO.:
                                       GB 1999-8309
                                       WO 2000-GB1361
                                                        W 20000411
```

AB Formulations are provided which contain at least one micelle-forming monoacyl membrane lipid either alone or preferably in combination with one

RN 139639-23-9 HCAPLUS

CN Plasminogen activator, tissue-type (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

REFERENCE COUNT: 3 THERE ARE 3 CITED RE

3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L424 ANSWER 10 OF 22 WPIX (C) 2003 THOMSON DERWENT

ACCESSION NUMBER:

2002-075222 [10] WPIX

DOC. NO. CPI:

C2002-022413

TITLE:

Inhibiting cerebral amyloid angiopathy used for

treating e.g. Alzheimer's disease comprises contacting

blood vessel wall cell with amyloid-beta 40

inhibitor.

DERWENT CLASS:

: B05

INVENTOR(S):

GERVAIS, F; GREEN, A M

PATENT ASSIGNEE(S):

(NEUR-N) NEUROCHEM INC; (GERV-I) GERVAIS F; (GREE-I)

GREEN A M

COUNTRY COUNT:

95

PATENT INFORMATION:

PATENT NO KIND DATE WEEK LA PG

WO 2001085093 A2 20011115 (200210)* EN 68

RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ

NL OA PT SD SE SL SZ TR TZ UG ZW

W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM

DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE

K LR LS LI LO LV MA MD MG MK MN MW MA MZ NO NZ PL PI RO RO SD S

SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

AU 2001084313 A 20011120 (200219)

EP 1251837 A2 20021030 (200279) EN

R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT

RO SE SI TR

BR 2000016652 A 20021119 (200305)

US 2003003141 A1 20030102 (200305)

APPLICATION DETAILS:

FILING DETAILS:

PAT	ENT NO	KIND)		PAT	TENT NO	
AU	20010843	313 A	Based	on	WO	200185093	
EP	1251837	A2	Based	on	WO	200185093	
BR	20000166	552 A	Based	on	WO	200185093	

PRIORITY APPLN. INFO: US 1999-171877P 19991223; US 2000-747408 20001222

2002-075222 [10] WPIX AN

AB

WO 200185093 A UPAB: 20020213

NOVELTY - Inhibiting cerebral amyloid angiopathy comprises contacting a blood vessel wall cell with an A beta 40 inhibitor.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for diagnosing cerebral amyloid angiopathy which comprises administering an imageable A beta 40 inhibitor so that the inhibitor contacts cerebral blood vessels which are likely areas for cerebral amyloid angiopathy, and imaging the areas to determine the presence or absence of the inhibitor in the areas.

ACTIVITY - Nootropic; Neuroprotective; Cerebroprotective. MECHANISM OF ACTION - A beta 40 inhibitor.

Nine week old hAPP transgenic mice were treated for 8 weeks with 3-amino-1-propanesulfonic acid, sodium salt (A) at a concentration of 30 mg/kg. The extent of cerebral amyloid angiopathy (CAA) in brain sections obtained from these animals was qualitatively determined.

The results for the test/comparative were as follows: number of animals in study = 11/16; number of animals with CAA = 10/15; CAA animals/total animals = 10/11; 15/16 and CAA severity = 6/10 (slight deposition); 4/10 (moderate deposition)/5/15 (slight deposition); 9/15 (moderate deposition); 1/15 (severe deposition).

USE - Used for treating disease states characterized by cerebral amyloid angiopathy (claimed), particularly Alzheimer's disease, hereditary cerebral hemorrhage with amyloidosis of the Dutch type and hemorrhagic stroke.

Dwg.0/0

L424 ANSWER 11 OF 22 WPIX (C) 2003 THOMSON DERWENT WPTX

ACCESSION NUMBER:

2001-123203 [13]

DOC. NO. CPI: TITLE:

C2001-035816

Targeted ultrasound contrast agents comprising a carrier and a particles consisting of a linker, a targeting ligand and inorganic porous particles of

0.05-500 microns in diameter which contain an entrapped gas or liquid.

A96 B05 P31

DERWENT CLASS:

INVENTOR(S): PATENT ASSIGNEE(S): CARPENTER, A P; CHEESMAN, E H; GLAJCH, J L (DUPO) DU PONT PHARM CO; (DUPO) DUPONT PHARM CO

COUNTRY COUNT:

PATENT INFORMATION:

PATENT NO KIND DATE WEEK PG

WO 2001005438 A1 20010125 (200113) * EN 38

RW: AT BE CH CY DE DK EA ES FI FR GB GR IE IT LU MC NL PT SE

W: AU BR CA CN CZ EE HU IL IN JP KR LT LV MK MX NO~NZ PL RO SG SI SK TR UA VN ZA

A 20010205 (200128) AU 9951275

B1 20010703 (200140) US 6254852

A1 20020502 (200236) EN EP 1200134

> R: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI

APPLICATION DETAILS:

PATENT NO F	KIND	AP:	PLICATION	DATE
WO 2001005438	3. A1	AU	1999-US16804	19990722
AU 9951275	.A		1999-51275	19990722
US 6254852	.⊰B1		1999-356178	19990716

DOCUMENT TYPE:

Patent English

LANGUAGE:

FAMILY ACC. NUM. COUNT: 3

reducing adhesions)

Calcium, ion (Ca2+) (8CI, 9CI) (CA INDEX NAME)

14127-61-8 HCAPLUS

RN CN

PATENT INFORMATION:

```
KIND
                                                  APPLICATION NO.
     PATENT NO.
                                DATE
                                                                      DATE
                                 -----
                                                  -----
                                                WO 2000-US7963
     WO 2000059516
                        A1
                                 20001012
                                                                      20000323
          W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
          RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

181023 A1 20020227 EP 2000-921450 20000323
     EP 1181023
               AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
               IE, SI, LT, LV, FI, RO
     US 2002010150
                          A1
                                20020124
                                                  US 2001-843588
                                                                      20010426
                                               US 1999-127571P P 19990402
PRIORITY APPLN. INFO.:
                                                                  A 19991227
                                               US 1999-472110
                                               WO 2000-US7963
                                                                  W
                                                                      20000323
                                               US 2000-200457P P
                                                                      20000428
                                               US 2000-200637P P 20000428
     The present invention relates to improved methods for making and using
AΒ
     bioadhesive, bioresorbable, anti-adhesion compns. made of intermacromol.
     complexes of carboxyl-contg. polysaccharides, polyethers, polyacids,
     polyalkylene oxides, multivalent cations and/or polycations. The polymers
     are assocd. with each other, and are then either dried into membranes or
     sponges, or are used as fluids or microspheres. Bioresorbable,
     bioadhesive, anti-adhesion compns. are useful in surgery to prevent the
     formation and reformation of post-surgical adhesions. The compns. are
     designed to breakdown in-vivo, and thus be removed from the body.
     Membranes are inserted during surgery either dry or optionally after
     conditioning in aq. solns. The anti-adhesion, bioadhesive, bioresorptive,
     antithrombogenic and phys. properties of such membranes and
     gels can be varied as needed by carefully adjusting the pH and/or
     cation content of the polymer casting solns., polyacid compn., the
     polyalkylene oxide compn., or by conditioning the membranes prior to
     surgical use. Multi-layered membranes can be made and used to provide
     further control over the phys. and biol. properties of antiadhesion
     membranes. Membranes and gels can be used concurrently.
     Antiadhesion compns. may also be used to lubricate tissues and/or medical
     instruments, and/or deliver drugs to the surgical site and release them
     locally. An examples was given for prepn. of a neutral CM-cellulose-PEG
    membrane.
     14127-61-8, Calcium ion, biological studies 16397-91-4,
     Manganese ion (Mn2+), biological studies 22537-22-0, Magnesium
     ion, biological studies 23713-49-7, Zinc ion, biological studies
     RL: MOA (Modifier or additive use); THU (Therapeutic use);
     BIOL (Biological study); USES (Uses)
```

(compns. of polyacids and polyethers and methods for their use in

```
Ca 2+
     16397-91-4 HCAPLUS
RN
     Manganese, ion (Mn2+) (8CI, 9CI) (CA INDEX NAME)
CN
Mn^{2+}
     22537-22-0 HCAPLUS
RN
     Magnesium, ion (Mg2+) (8CI, 9CI) (CA INDEX NAME)
CN
Mq^{2+}
     23713-49-7 HCAPLUS
RN
     Zinc, ion (Zn2+) (8CI, 9CI) (CA INDEX NAME)
CN
Zn 2+
     9004-32-4 9004-42-6, Carboxyethyl cellulose
ΙT
     9004-61-9, Hyaluronic acid 9005-49-6, Heparin,
     biological studies 9007-28-7, Chondroitin sulfate
     9044-05-7, Carboxymethyl dextran 25322-68-3, Peg 52519-63-8, Carboxymethyl chitin 83512-85-0,
     Carboxymethyl chitosan
     RL: THU (Therapeutic use); BIOL (Biological study);
     USES (Uses)
        (compns. of polyacids and polyethers and methods for their use in
        reducing adhesions)
     9004-32-4 HCAPLUS
RN
     Cellulose, carboxymethyl ether, sodium salt (8CI, 9CI) (CA INDEX NAME)
CN
     CM
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     CRN
          9004-34-6
          Unspecified
     CMF
     CCI
          PMS, MAN
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
     CM 2
     CRN
         79-14-1
     CMF C2 H4 O3
HO-C-CH2-OH
RN
     9004-42-6 HCAPLUS
     Cellulose, 2-carboxyethyl ether (9CI) (CA INDEX NAME)
CN
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CM 1

CRN 9004-34-6

CMF Unspecified

CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

CRN 503-66-2

CMF C3 H6 O3

HO-CH2-CH2-CO2H

RN 9004-61-9 HCAPLUS

CN Hyaluronic acid (8CI, 9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 9005-49-6 HCAPLUS

CN Heparin (8CI, 9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 9007-28-7 HCAPLUS

CN Chondroitin, hydrogen sulfate (9CI) (CA INDEX NAME)

CM :

CRN 9007-27-6

CMF Unspecified

CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

CRN 7664-93-9

CMF H2 O4 S

RN 9044-05-7 HCAPLUS

CN Dextran, carboxymethyl ether (9CI) (CA INDEX NAME)

CM 1

CRN 9004-54-0

CMF Unspecified

CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE .***

CM 2

CRN 79-14-1 CMF C2 H4 O3

RN 25322-68-3 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy- (9CI) (CA INDEX NAME)

$$HO = \begin{bmatrix} CH_2 - CH_2 - O \end{bmatrix}_n H$$

RN 52519-63-8 HCAPLUS

CN Chitin, carboxymethyl ether (9CI) (CA INDEX NAME)

CM :

CRN 1398-61-4 CMF Unspecified

CCI MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

CRN 79-14-1 CMF C2 H4 O3

RN 83512-85-0 HCAPLUS

CN Chitosan, N-(carboxymethyl) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L424 ANSWER 15 OF 22 HCAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: 2000:240920 HCAPLUS

DOCUMENT NUMBER: 132:270087

TITLE: Foamable formulation comprising a foamable gelling

agent and a slow-release precipitant

INVENTOR(S): Gilchrist, Tom; Trainer, Eilidh

PATENT ASSIGNEE(S): Giltech Limited, UK SOURCE: PCT Int. Appl., 36 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

```
PATENT NO.
                          KIND
                                  DATE
                                                    APPLICATION NO.
                                                                         DATE
                                  _____
                                              WO 1999-GB3331 19991007
      WO 2000019979
                          A1
                                  20000413
          W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY,
               KG, KZ, MD, RU, TJ, TM
          RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
      CA 2338337
                           AA 20000413
                                                  CA 1999-2338337 19991007
     AU 9962162
                            Α1
                                  20000426
                                                    AU 1999-62162
                                                                         19991007
                                                   EP 1999-949178
      EP 1117379
                           A1
                                  20010725
                                                                         19991007
               AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO
      JP 2002526398
                           Т2
                                  20020820
                                                    JP 2000-573341
                                                                         19991007
PRIORITY APPLN. INFO.:
                                                                  A 19981007
                                                 GB 1998-21736
                                                                     Α
                                                GB 1999-7065
                                                                         19990327
                                                                    W 19991007
                                                WO 1999-GB3331
AB
      There is described a formulation comprising a foamable gelling agent (such
      as alginate, carrageenan or CM-cellulose gels) and a
      slow-release precipitant therefor. The precipitant is combined with the
      gelling agent during foaming and stabilizes the foamed form of the gelling
      agent. Suitable precipitants include calcium salts such as calcium
      citrate and calcium chloride, or aluminum salts such as aluminum chloride.
     The increased stability of the foam facilitates sterilization thereof.
      Further improvements can be obtained by exposing the cured foam to a
     precipitant applied externally, optionally washing, and then drying the foam. The foam of the present invention is suitable for medical or
     veterinary use and can include active ingredients for delivery to, for
      example, a wound site. A gel contained water 80 mL, glycerin
     25.22, and Keltone HV 6.5 g. To 100 g of the above gel was
     added 2.5 g calcium citrate and the foamed gel was spread out
     onto plastic sheeting. The resultant foam pad was liftable in 15 min.
     7440-66-6D, Zinc, salts, biological studies 7440-70-2D,
IT
     Calcium, salts, biological studies 9004-32-4 25322-68-3
      , Polyethylene oxide
     RL: THU (Therapeutic use); BIOL (Biological study);
     USES (Uses)
          (foamable formulation comprising foamable gelling agent and
         slow-release precipitant)
RN
      7440-66-6 HCAPLUS
CN
      Zinc (7CI, 8CI, 9CI) (CA INDEX NAME)
```

Zn

RN 7440-70-2 HCAPLUS CN Calcium (8CI, 9CI) (CA INDEX NAME)

Ca

RN 9004-32-4 HCAPLUS

CN Cellulose, carboxymethyl ether, sodium salt (8CI, 9CI) (CA INDEX NAME)

CM :

CRN 9004-34-6 CMF Unspecified CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

CRN 79-14-1 CMF C2 H4 O3

RN 25322-68-3 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy- (9CI) (CA INDEX NAME)

$$HO = \begin{bmatrix} CH_2 - CH_2 - O \end{bmatrix}_n H$$

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L424 ANSWER 16 OF 22 HCAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: 1999:141223 HCAPLUS

DOCUMENT NUMBER: 130:163207

TITLE: Use of locally delivered metal ions for treatment of

periodontal disease

INVENTOR(S): Roberts, F. Donald; Friden, Phillip M.; Spacciapoli,

PATENT ASSIGNEE(S): Periodintix, Inc., USA SOURCE: PCT Int. Appl., 37 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

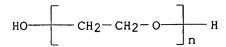
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	K	IND DAT	E	AI	PPLICA	ATION NO).	DATE			
WO 9908691		A2 199	90225	WC	1998	3-US1673	38	19980	813		
WO 9908691		A3 199	90506								
W: AL,	AM, AT	, AU, AZ	, BA, BI	B, BG,	BR, E	BY, CA,	CH,	CN,	CU,	CZ,	DE,
DK,	EE, ES	, FI, GB	, GE, GI	H, GM,	HR, H	HU, ID,	IL,	IS,	JP,	ΚE,	KG,
KP,	KR, KZ	, LC, LK	, LR, LS	S, LT,	LU, I	LV, MD,	MG,	MK,	MN,	MW,	MX,
NO,	NZ, PL	, PT, RO	, RU, SI	D, SE,	SG, S	SI, SK,	SL,	ТJ,	TM,	TR,	TT,
UA,	UG, US	, UZ, VN	, YU, ZV	W, AM,	AZ, E	BY, KG,	ΚZ,	MD,	RU,	ТJ,	TM

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RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES,
             FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,
             CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
    US 6153210
                            20001128
                                           US 1997-911413
                                                             19970814
                       Α
    CA 2301065
                       AA
                            19990225
                                           CA 1998-2301065
                                                            19980813
    AU 9890178
                       A1
                            19990308
                                           AU 1998-90178
                                                            19980813
                                           EP 1998-942041
    EP 1011693
                       A1
                            20000628
                                                            19980813
            AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, FI
     JP 2001515042
                       Т2
                            20010918
                                           JP 2000-509430
                                                             19980813
                            20000315
                                           NO 2000-688
                                                             20000211
     NO 2000000688
                       Α
PRIORITY APPLN. INFO .:
                                        US 1997-911413
                                                            19970814
                                                         Α
                                        WO 1998-US16738 W 19980813
AB
     Periodontal disease can be treated by the administration of metal ions,
     preferably silver ions, to the site where the microorganisms that cause
     this disease reside. Administration can be to periodontal pockets or
     adjacent to exposed tooth roots or alveolar bone during periodontal
     surgical procedures. The metal ions can be administered in polymeric
    microparticles, deformable films or microparticles embedded within
     deformable films. The metal ions are particularly microbiocidal to the
    bacterial pathogens that are the causative agents of periodontal disease.
    7440-66-6, Zinc, biological studies
IT
     RL: BAC (Biological activity or effector, except adverse); BSU
     (Biological study, unclassified); THU (Therapeutic use);
    BIOL (Biological study); USES (Uses)
        (metal ions, locally delivered, for treatment of periodontal disease)
     7440-66-6 HCAPLUS
RN
     Zinc (7CI, 8CI, 9CI) (CA INDEX NAME)
CN
Zn
ΙT
     9004-62-0, Hydroxyethyl cellulose 9004-64-2,
     Hydroxypropyl cellulose 9004-65-3, Hydroxypropylmethyl cellulose
    25322-68-3, Polyethylene glycol
    RL: THU (Therapeutic use); BIOL (Biological study);
     USES (Uses)
        (metal ions, locally delivered, for treatment of periodontal disease)
RN
     9004-62-0 HCAPLUS
CN
    Cellulose, 2-hydroxyethyl ether (8CI, 9CI) (CA INDEX NAME)
    CM
          9004-34-6
    CRN
          Unspecified
     CMF
     CCI
         PMS, MAN
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
     CM
     CRN
         107-21-1
     CMF C2 H6 O2
HO-CH_2-CH_2-OH
    9004-64-2 HCAPLUS
RN
```

```
Cellulose, 2-hydroxypropyl ether (9CI) (CA INDEX NAME)
CN
    CM
    CRN
         9004-34-6
         Unspecified
    CMF
    CCI PMS, MAN
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
    CM
    CRN 57-55-6
    CMF C3 H8 O2
    ОН
H3C-CH-CH2-OH
    9004-65-3 HCAPLUS
RN
    Cellulose, 2-hydroxypropyl methyl ether (9CI) (CA INDEX NAME)
CN
    CM
    CRN
         9004-34-6
         Unspecified
    CMF
   CCI PMS, MAN
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
    CM
    CRN 67-56-1
    CMF C H4 O
нзс-он
    CM
          3
    CRN 57-55-6
    CMF C3 H8 O2
    ОН
H3C-CH-CH2-OH
     25322-68-3 HCAPLUS
RN
     Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy- (9CI) (CA INDEX
CN
```



L424 ANSWER 17 OF 22 WPIX (C) 2003 THOMSON DERWENT

ACCESSION NUMBER:

1999-302473 [25] WPIX

DOC. NO. CPI:

C1999-088642

TITLE:

Preparation of micro- and nano- particle

delivery system.

DERWENT CLASS:

A96 B04 B07

INVENTOR(S):

PROKOP, A

PATENT ASSIGNEE(S):

(UYVA-N) UNIV VANDERBILT

COUNTRY COUNT:

22

PATENT INFORMATION:

PATENT NO KIND DATE WEEK LA PG

WO 9918934 A1 19990422 (199925)* EN 52

RW: AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

W: AU CA JP

AU 9897991 A 19990503 (199937)

EP 1021168 A1 20000726 (200037) EN

R: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 9918934 AU 9897991 EP 1021168	A1 A A1	AU 1998-97991 EP 1998-952243	19981009 19981009 19981009
		WO 1998-US21455	19981009

FILING DETAILS:

11112111 110	KIND	PATENT NO
AU 9897991	A Based on	WO 9918934 WO 9918934

PRIORITY APPLN. INFO: US 1997-62943P 19971009

AN 1999-302473 [25] WPIX

AB WO 9918934 A UPAB: 20011203

NOVELTY - A method of making particles useful in drug delivery comprises contacting polyanionic polymers with **cations** in a stirred reactor so that the polyanions and the **cations** react to form particles, is new.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (1) a multicomponent system to generate microparticles, composed of a structural (gelling) polymer and a polymer providing mechanical strength and permeability control;
- (2) a particle made by the above method comprising of multicomponent core anionic polymers and anionic antigen, where all components of the core are incorporated as an integral part of the complex formed with the receiving bath polycations;
 - (3) a composition of matter comprising multicomponent core polymers,

where corona polymers also include a charged surface modifier (electrostatic stabilizer) of the same charge as the corona polymers, and in which all corona components are incorporated in one step as an integral

part of the complex;

(4) a nonionic polymeric surface modifier (steric stabilizer) as part

of the corona multipolymeric system, where all corona components are

integrated into the outer polymer structure (shall).

(5) a vaccine comprising the particles of (2);

- (6) a composition of matter comprising core anionic polymers and anionic antigens (or plasmid DNA or antisense RNA oligonucleotide), all components being incorporated into the ionically formed complex;
- (7) a method of processing reactor content to remove unwanted residual reactants comprises sedimenting or centrifuging the reactor contents, collecting microparticles or nanoparticles generated, rinsing the particles in excess water, buffer or cryopreservation solution, separating suspension by sedimentation or centrifugation, repeating rinsing and separation steps and reducing volume of the suspension to about 1/100th of the initial volume;
- (8) a method of chemical stabilization of the washed and isolated particles, by reacting particles with a crosslinking agent, rinsing in excess of water, buffer, or cryopreservation solution, separating the particles by sedimentation or centrifugation, repeating the rinsing and separation as needed, and reducing the volume of the suspension;
- (9) a method of cryoprotecting the washed particles, by suspending the particles in a cryoprotective solution, and lyophilising;
- (10) a method of immunization of animals comprising the step of orally delivering an encapsulated antigen in the particles, where the particles are taken up by M-cells in Peyer's patches of the epithelial lining of the upper intestinal tract resulting in an increase in secretory and systemic antibodies in blood;
- (11) a method of adjusting the biodegradability of polymeric mixtures, by contacting an enzyme with a polysaccharide, and degrading the substrate at physiological conditions in vivo; and
- (12) a method of introducing an adjuvant to potentiate an immunogenic effect, by administration of the adjuvant as part of a droplet forming polymeric mixture.
- USE Possible uses of the micro- or nano- particulate product range over the fields of pharmaceuticals, proteins, polymers, and colloids, immunology, and biomedical engineering. They include delivery of drugs generally, antigens and vaccines for immunization of humans and other animals, genes (plasmid DNA), and antisense RNA and DNA oligonucleotides. Some targeting is possible, e.g., by adding mocoadhesive polymers to provide sticking to certain mucosal areas; this applies particularly to the M-cells in Peyer's patches in the epithelial lining of the small intestine, to increase delivery of large molecules, e.g., antibodies. It is stated that the particle production operation can be carried out as a continuous, in addition to a batch process.

L424 ANSWER 18 OF 22 MEDLINE

ACCESSION NUMBER: 1999014126 MEDLINE

99014126 PubMed ID: 9795015 DOCUMENT NUMBER:

A novel co-crosslinked polysaccharide: studies for a TITLE:

controlled delivery matrix.

Coviello T; Dentini M; Rambone G; Desideri P; Carafa M; AUTHOR:

Murtas E; Riccieri F M; Alhaique F

Dipartimento di Studi di Chimica e Tecnologia delle CORPORATE SOURCE:

Sostanze Biologicamente Attive. Universita di Roma 'La

Sapienza', 00185 Rome, Italy.

JOURNAL OF CONTROLLED RELEASE, (1998 Oct 30) 55 (1) 57-66. SOURCE:

Journal code: 8607908. ISSN: 0168-3659.

PUB. COUNTRY: Netherlands

Journal; Article; (JOURNAL ARTICLE) DOCUMENT TYPE:

LANGUAGE: English

Priority Journals FILE SEGMENT:

ENTRY MONTH: 199901

ENTRY DATE: Entered STN: 19990202

> Last Updated on STN: 19990202 Entered Medline: 19990119

The formulation of a new controlled delivery system, based on a novel type AB of matrix obtained by the chemical reaction carried out in an aqueous medium on a mixed physical gel of gellan and scleroglucan, is described in this paper. The preparation yielded a new co-crosslinked polysaccharide (CCP) hydrogel, bearing carboxylic groups, that showed a sustained release behaviour that can be modulated by means of calcium ions. For the characterization of CCP, diffusion experiments through the swelled hydrogel were carried out in different environmental conditions and the release from tablets prepared with CCP and a model drug was evaluated. The addition of CaCl2 in the formulation of the dosage forms allowed a further marked reduction in delivery rate to be obtained; this effect is to be related to the free ionized carboxylic groups still present in the gellan moiety of CCP. The different behaviour of Ca+2 and Na+ ions is discussed.

L424 ANSWER 19 OF 22 HCAPLUS COPYRIGHT 2003 ACS

1997:267037 HCAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 126:255279

Cosmetic or pharmaceutical compositions containing TITLE:

Filicium extracts

Bonte, Frederic; Dumas, Marc; Lavaud, Catherine; INVENTOR(S):

> Massiot, Georges Lvmh Recherche, Fr. Fr. Demande, 20 pp.

CODEN: FRXXBL

DOCUMENT TYPE: Patent LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT ASSIGNEE(S):

SOURCE:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2735982	A1	19970103	FR 1995-7708	19950627
FR 2735982	B1	19970919		
WO 9701346	A1	19970116	WO 1996-FR998	19960627
W: JP, U	S			
RW: AT, B				C, LU, MC, NL, PT, SE
EP 835121	A1	19980415	EP 1996-924025	19960627
R: CH, D	E, ES, FR	R, GB, IT, L	I	
PRIORITY APPLN. IN	FO.:		FR 1995-7708	19950627

WO 1996-FR998 A compn. contg. 0.0001-3% exts. of Filicium, e.g., Filicium decipiens for cosmetic or pharmaceutical uses is described. This compn. stimulates the prodn. of glycosaminoglycans in the skin, thus making it useful for skinor hair-care prepns. The root bark of F. decipiens (54 g), collected in South Africa, was macerated with 500 mL MeOH for 1.5 h. The ext. was boiled for 3 h, cooled, filtered and treated with 500 mL acetone. A ppt. obtained was sepd., dried, purified by dialysis, and the ext. rich in saponins was used for the formulations. A hydrating gel was prepd. from the following components: the plant ext. 0.5, EtOH 5, glycerol 4, Carbopol 940 1.3, water and preservatives to 100 g.

19960627

7440-66-6, Zinc, biological studies 9004-61-9, TT

Hyaluronic acid 25322-68-3, PEG

RL: BUU (Biological use, unclassified); THU (Therapeutic use);

BIOL (Biological study); USES (Uses)

(cosmetic or pharmaceutical compns. contg. Filicium exts.)

RN

7440-66-6 HCAPLUS Zinc (7CI, 8CI, 9CI) (CA INDEX NAME) CN

Zn

9004-61-9 HCAPLUS RN

CN Hyaluronic acid (8CI, 9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

25322-68-3 HCAPLUS RN

Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy- (9CI) (CA INDEX CN NAME)

$$HO = \begin{bmatrix} CH_2 - CH_2 - O \end{bmatrix}_n H$$

L424 ANSWER 20 OF 22 HCAPLUS COPYRIGHT 2003 ACS

1997:267035 HCAPLUS ACCESSION NUMBER:

126:255475 DOCUMENT NUMBER:

Pharmaceutical and cosmetic compositions containing TITLE:

extracts of Foetidia species

INVENTOR(S): Bonte, Frederic; Dumas, Marc; Lavaud, Catherine;

> Massiot, Georges Lvmh Recherche, Fr. Fr. Demande, 20 pp.

SOURCE: CODEN: FRXXBL

DOCUMENT TYPE: Patent French LANGUAGE:

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT ASSIGNEE(S):

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2735981	A1	19970103	FR 1995-7707	19950627
FR 2735981	B1	19970919		
WO 9701345	A1	19970116	WO 1996-FR997	19960627
W: JP, US				

RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE FR 1995-7707 19950627 PRIORITY APPLN. INFO.:

Pharmaceutical and cosmetic compns. contg. exts. of Foetidia species are useful for the stimulation of glycosaminoglycans prodn. in the skin and thus moisturizing skin and hair. Methanolic ext. of F. africana bark (49 q in 500 mL) was pptd. with acetone, filtered, dialyzed against water and lyophilized to obtain 724 mg lyophilizate rich in saponins. The above ext. at a concn. of 10 .mu.g/mL increased the prodn. of glycosaminoglycans by human fibroblasts significantly. A gel contained above ext. 0.5, ethanol 5, glycerol 4, Carbopol 940 1.3, and water q.s. 100 g.

7439-95-4, Magnesium, biological studies 7440-66-6, ΙT Zinc, biological studies 9004-61-9, Hyaluronic acid

25322-68-3, Peg

RL: BUU (Biological use, unclassified); THU (Therapeutic use);

BIOL (Biological study); USES (Uses)

(pharmaceutical and cosmetic compns. contg. exts. of Foetidia species)

RN 7439-95-4 HCAPLUS

CN Magnesium (8CI, 9CI) (CA INDEX NAME)

Mg

RN 7440-66-6 HCAPLUS

CN Zinc (7CI, 8CI, 9CI) (CA INDEX NAME)

Zn

RN 9004-61-9 HCAPLUS

CN Hyaluronic acid (8CI, 9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 25322-68-3 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy- (9CI) (CA INDEX NAME)

$$HO \longrightarrow CH_2 - CH_2 - O \longrightarrow H$$

L424 ANSWER 21 OF 22 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1992:181165 HCAPLUS

DOCUMENT NUMBER: 116:181165

TITLE: Oral osmotic device for delivering nicotine

INVENTOR(S): Place, Virgil A.; Wong, Patric S. L.; Barclay, Brian

L.; Childers, Jerry D.

PATENT ASSIGNEE(S): Alza Corp., USA

SOURCE: PCT Int. Appl., 32 pp.

CODEN: PIXXD2
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PAT	TENT NO.		KIND DATE		APPLICATION NO.	DATE
WO	9201445		A1 19920	0206	WO 1991-US5089	19910718
	W: AU,	FI,	JP, KR, NO			
	RW: AT,	BE,	CH, DE, DK,	ES, FR,	GB, GR, IT, LU, NL	, SE
ΑU	9182924		A1 19920	0218	AU 1991-82924	19910718
ΑU	652952		B2 19940	0915		
ZA	9105648		A 19920)527	ZA 1991-5648	19910718
EΡ	540623		A1 19930	0512	EP 1991-913859	19910718
EΡ	540623		B1 19940	0914		
	R: AT,	BE,	CH, DE, DK,	ES, FR,	GB, GR, IT, LI, LU	, NL, SE
JΡ	06502622		T2 19940	0324	JP 1991-512955	19910718
ES	2064117		T3 19950	0116	ES 1991-913859	19910718

CA 1991-2047418 19910719

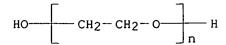
CA 2047418

AA

19920124

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US 5147654
                            19920915
                                           US 1991-793058
                       Α
                                                            19911115
                                           NO 1993-134
    NO 9300134
                       Α
                            19930121
                                                            19930115
PRIORITY APPLN. INFO.:
                                        US 1990-557434
                                                            19900723
                                        WO 1991-US5089
                                                            19910718
    An osmotic device for controlled systemic delivery of nicotine (I) through
AB
    oral mucosal membrane is disclosed. The device is easily retained in the
    mouth for extended periods of time. The device comprises a semipermeable
    wall surrounding a compartment contg. a I salt and an alkali metal salt
    which is capable of reacting with the nicotine salt in the presence of
    water to form I base. I base is delivered from the compartment through a
    passageway in the wall. The I salt exhibits good stability and shelf
    life, while the I base exhibits excellent absorption through oral mucosal
    membranes. I bitartrate 0.73, Na2CO3 1.50, poly(ethylene oxide) (II)
    83.27, HPMC 5.00, Na saccharin 3.00 g and flavors q.s. were mixed and
    pressed to form a I layer. II 64.5, NaCl 29.0, HPMC 5.0, Mg stearate 0.5
    g, and colors q.s. wa pressed to form a layer in contact with the I layer.
    The semipermeable walls for bilayer 250 mg tablets was made by blending a
     soln. contq. 78.0 g cellulose acetate in 3550 mL acetone with 320 mL water
     and 31.2 g PEG, 13.0 g sorbitol, 2.6 g Na saccharin, and flavors q.s. The
    tablets were coated with the above soln., dried, and two passageways were
    drilled through the semipermeable wall on the side of the coated tablet
    adjacent the I layer.
ΙT
    7440-66-6D, Zinc, complexes with nicotine
    RL: BIOL (Biological study)
        (osmotic delivery device for)
    7440-66-6 HCAPLUS
Zinc (7CI, 8CI, 9CI) (CA INDEX NAME)
RN
CN
Zn
  9004-32-4, Sodium carboxymethyl cellulose 9004-64-2,
    Hydroxypropyl cellulose 9004-65-3 25322-68-3,
    Polyethylene oxide
    RL: BIOL (Biological study)
        (osmotic delivery device for nicotine contq.)
RN
     9004-32-4 HCAPLUS
CN
    Cellulose, carboxymethyl ether, sodium salt (8CI, 9CI) (CA INDEX NAME)
    CM
          1
    CRN
         9004-34-6
    CMF
         Unspecified
         PMS, MAN
    CCI
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
    CM
          2
    CRN 79-14-1
    CMF C2 H4 O3
HO-C-CH2-OH
```

```
9004-64-2 HCAPLUS
RN
     Cellulose, 2-hydroxypropyl ether (9CI) (CA INDEX NAME)
CN
     CM
          1
         9004-34-6
     CRN
         Unspecified
     CMF
     CCI PMS, MAN
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
     CM
          2
     CRN 57-55-6
     CMF C3 H8 O2
    ОН
_{\rm H_3C-CH-CH_2-OH}
RN
     9004-65-3 HCAPLUS
     Cellulose, 2-hydroxypropyl methyl ether (9CI) (CA INDEX NAME)
CN
     CM
          1
     CRN 9004-34-6
     CMF
         Unspecified
     CCI PMS, MAN
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
     CM
          2
     CRN 67-56-1
     CMF C H4 O
нзс-он
          3
     CM
     CRN 57-55-6
     CMF C3 H8 O2
     OH
{\rm H_3C}-{\rm CH}-{\rm CH_2}-{\rm OH}
     25322-68-3 HCAPLUS
RN
     Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy- (9CI) (CA INDEX
CN
     NAME)
```



L424 ANSWER 22 OF 22 MEDLINE

ACCESSION NUMBER: 88222345 MEDLINE

DOCUMENT NUMBER: 88222345 PubMed ID: 3130902

TITLE: Water content and compression modulus of some heparin-PVA

hydrogels.

AUTHOR: Watler P K; Cholakis C H; Sefton M V

CORPORATE SOURCE: Department of Chemical Engineering and Applied Chemistry,

University of Toronto, Ontario, Canada.

CONTRACT NUMBER: HL 24020 (NHLBI)

SOURCE: BIOMATERIALS, (1988 Mar) 9 (2) 150-4.

Journal code: 8100316. ISSN: 0142-9612.

PUB. COUNTRY: ENGLAND: United Kingdom

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 198807

ENTRY DATE: Entered STN: 19900308

Last Updated on STN: 19970203 Entered Medline: 19880712

The effects of changes in the heparin-PVA formulation on the water content, compression modulus and molecular weight between cross-links of the resulting gel was determined. Molecular weight between cross-links was calculated directly from the compression modulus and the swelling ratio. Glutaraldehyde and MgCl2 displayed the effects expected of them as cross-linking agent and catalyst respectively. On the other hand, formaldehyde appeared to be a non-essential component since its absence had little effect on gel properties and its presence did not affect the water content as originally predicted. Understanding the effect of each formulation component on gel properties enables alteration of gel water content and hence permeability for special applications.

FILE 'HOME' ENTERED AT 17:47:44 ON 28 JAN 2003